Prof. Asa Gray, Cambridge, 11.5

Dear Sir,

About 10 days ago, I received an incomplete set of I indheimen's plant from D' Engelmann and a few days after, I transmitted to him a ten Dollars not in payment of the James. I olid it not to prove my readiness, but improve this opportunity of opening a Correspondence with him. Although the last of the Mohicans, the Jampses were in A fine Condition, and were received with much pleasure.

Jouly regret that the Set was not Complete, as it would have been If my have had been put in time on the Subscribers list. I hope, I can sir, that I shall not be forgotten in the forthcoming distri-butions, not even in that of the Sauta Fe collection, if you permit we to have my share of it. Could you not vecanously, favor we with specimens, however such of hew or rare plants belonging to other sections of the Country? I have you in horthern and horth traction plants and in the few tropical plants growing on the sea-board of Florida, Ne. & mountain plants.

Thave escawined my genus Cusenta; Except thou Species I have secesived from Map? Curtie & Engelman I have no other but the European Lawricana. Not a Single specimen from Refinengen. Probably the package Containing them was among those that were Completely distroger by rate in the garret of the auction How When they remained neglected for mon them two years.

I am indeed very glad to be you hard at Worst on the horth american Hora. I confee that yanker the go a head of Decandolo's prodrown. It seems to me that, belider rendering yourself very useful to forcing Botanits, you would acquire a mon extended reputation and promote Comiderably the Tale and credit of your escallant work by the frequence and how rath wention that loud not fail to be wend. of it in a work to generally circulated throughout The botanical World as the Tradrouns is; a work the little of which may not be republished for half a century. I feel, however, that the head of hear plants courtainly arriving to you from every direction renders the progress of your flores difficult and perplesiony; but as your have the opportunity of publishing their in Tillianse's Lounal, now care have the priority of you and you will have a larger stock for a supple ment? To con the liberty I lake of expressing may

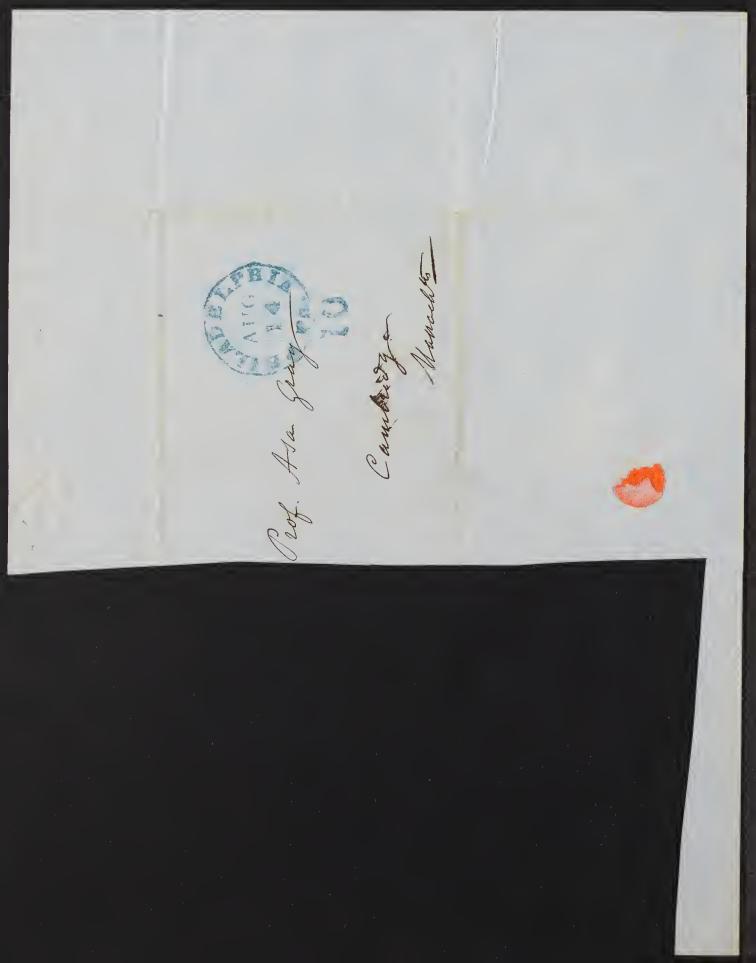
bjsicion.

I have a collection of autograph letters of most all our semerican botamists and Journe european; Could you favor we with thou of Decandole, fallow, of Envlicher, Kunth, Deuttam, Sindley La. La. Le. What a beggar I am?

Believe hur, my Dear Sir, Very
Respectfully your friend Drowner

(Daran)

Mit. August 14 th= 1846-7



Prof. Asa Gray, Rambridge M. May 26 48

May

who wished at the neglect of Me Nattall. At any time you want the meaney, you way send him huttall's letters with the usual form " fay to order of but at the land time, he resignates you to I pecify on the total how it happens that buttall has left off the ham of Carpenter - exactly in the Same measure as you specify it to me in your letter, Nutrall; draft will be honound.

I am like you expecting my show of It Louis Plants; I hope they will soon arrive, as I have already a large parcel of California, Ita tee and horthern plants tendy to place in my herbarium. Please to Jew with largest farcel possible of Me Spalding specimens, and do not cease to comider one a subscriber to any collection of american plants that can be obtained.

There heard a good Deal about your weer general illustrated; but I have not seen it - I am so busy with my baciness that I can find notion to occupy myself with botany; When Carry I that have received it, I will take one copy must probably. You may even put my name as a subscriber and I have no doubt

That I will find you there or four move. Now, my deer ser, I hope you will go on with your M. R. flore, at least that you will sown give as the sequel of the second volume to that your subscribers may have it bound up. I well i may in the causes of your protrested delay, you are not willing to form an addenda nearly as large as the world itself; Still, when you have received the latest invoices from the fee of California, you will not have to weach to add. Nuttall solder 300 California plant arround which is a five Attento which the has given my assure.

of introduction to you to a fewel heatarabit sent by the musice I historie naturelle de Pais. That gentlemen was presented to the by the french coural and recommended by him to my lane. He is a needest and timed young asang unfortunately speaking english very incorrectly. His animon is to Colifornia & oregon.

Believe was Very Sincerely yours

E. Durand

Thisa. May 26th 1848.

I have very deflicient in specimen from the teacher state & counter the found of the state of the state of the state of the specimen ten some, I would be then the state of the specimen ten some, I would be then the specimen ten some.

Hum & Miresotte Cambridge Ory. Aris gray

Di Asa Gray, Cambridge.

Dear Sir,

I received yesterday, by Mi Agastiz, your favor dated 18th instant. I am sorry to say that, neither in my herbainen, nor in that of the Academy of Sciences, I have found the Astragalus Mortianus of Nattale. The description of this filasts, as given in the south American flore, corresponds in many points with Feadlers 11° 148. But its ofhers, it does not agree. For instance, my specimen which is very fine, can hardly be called Stemler, as it has don't branches rising at least 2 inches above the needs of the root. The Seases are composed of from 10 to 15 fairs of rounded, oval, sometimes obtoned at large of least 1 temps are composed blue.

my intention has been for town times to with toyon in correquence of a letter received from De Page lander, in relation to a probable error introduced in your makeral, by confounding his Echinodorus parvalay with our lagittaria passillar. Is we who judge surperficially not being able to are the glass, I think with De E. these theororis probable. I'm E. requests musto examine our little plant in the state of inflorencemen and to send him a diagram of the structure of the flower, as to the member & pointion of the stames, I firstly and to send him also some specimen, in ripefrait. The first request, I have not been able to comply with, as there not found a single specimen in flower, although large fields of it are to be west on the lands of the Delaware, just caverying access from the sund.

If the warm weather continues, I do not Despair to see it in flower.

3- E. differs also with you in throwing all the horthern lagittarion cuts a lingle prices Variabilis. He say, that he finds at least 3 distinct by.

in the vicinity of I-Louis, viz: Variabilis, heterophylla and simples.

I hold firm also to ther- 3 species Wall Khown to our botaints, and

that I mon species will be made from very gam looking to gittain of the interior of Pennylvania.

of willd. growing all along the tide-water Shown of the Delaware, alway, discious. The var. pulsaceus in the bogs of the Servey uncadows see.

2. The heterophysia, with 2 varieties. The large oval loof and the parrow lanceslate. The first grows in patches along the Delaware Sarrounded by the Siccious variables. The other grows along the Delaware twice the dam. De Poster brought am a Lingular specimen when their the 1:30 of the S. parilla, with long lanceslate Lobter leaves, petioles & pedender areate, &c. which, from the pististate Wherh almost Senile, & place areate, &c. which, from the pististate Wherh almost Senile, & place among the heterophylla; but may be a new Species.

3 our Timplex and acutifolia near bette laun; Still their lespect is different; the pedicals of the first are long and Mender - The other are Shorter & acor tempto. Their physiogeous, is very different.

With long granineous leaves 12 or 15 in thes, by 3 wide, not acamianted but terminating in authorpt point, With a single leafengandid in a lanceolated form. Mr Wolfe labelled it granineem. I have seen the very same fellow in the herbasium of the Academy, under the name of rigida, collected by De Schweinitz in the Lehigh Eiver. Then are Kinds of appendages to some facts of the flower that on remargued as Mufortanately my specimen is not advanced enough the flowers are hardy expanded.

There also in the law herbarium a delicate tagittatical labelled by Dr. Pickering graminea With layittate themester leaves intermised. Some specimen have all sugittate, other all lemestate beaver. This, I think, may be referred to the Wast above; Which is frequently

exhibiting the oval or lancedlate flower. But as to the hiteuphyller and simply or acutifolic, I think they are very distict species. I down Jay it from migerore pical impertion of the leeds as Dr E. does; but from external observations. The heterophylla is as various in its former as the variabilis; but its pirtillate Whorls are always tablewile. The scape has toldow more then 2,3 or to Whoels, generally 2003. -The felicles & lower part of the Teaper have accurate lives or views Which are not seen in the variabilis, which appears only dotted. Since I received the accurate lample of Mr Porter, I have seen a great humber of specimen, not only Timilar to his; but some Very winute, exactly of the size and Thape of D. E. i achinodows. Other hastate; others perfectly round and fleshy, hart speper, de de. but all here the characters above auntioned; you in the face localities with the Variability; in the father head fromible, and I they are pagarens by it. The Singles present the Januar plean an - her ; it is a the Jucaller plant and were richer bow than bor 8 inder high.

Vite there remarks I have the pleasure to present your new word low int the competitud lentiments

Your de. E. Durand

Hurray University Mars Cumbiity Rof. Ara Gray

Prof. Asa if on almissing wille

n'till div

Jour letter of 72 emplant, with a practia of Towners Break having house som to hand, and found The Hing on my back, with a broken key, from a fall on The very more that the city. There soen 3 weeks who do in partie situation and was remain as long age, with ust tonger. But don't come at to the some and in amount of there love lets of granimum . " rateing & Wright & in he has been been from the win to see it of him the history are in the in somewish to now . It is now on my legar? T'm Silver a so the but mo alletants are do burn burney They are were the How that it will be war com to their to may the in it was prome one from the costs -Min alway be happy to contribute the war to the the server of our the ching between to a Equinity to the contemplated exploration of The Sall later region-Lever of Easiferin. Provided he be net to Ken by in golden dy the with great plant the long time way to werely source of the thing

Massachande Pag. An gray

Prof. Asa Gray, Cambridge M.

My Gear Sir,

Jackey of plants directed to my lear for De Alexander. To this were joined two parcels of Me Oukes plants which you propose me to purchase for twenty three Dollars.

Thave examined them and found them generally very good specimens, but I am sorry to say that with the exception of about one dozen or more I have them all in my collection, received from Mepa Thruber & Olney, or formerly from De Pickering. Some of them would be a good acquisition as fiver specimens or as an addition to a Single specimens, but 23 dollars would be

for you but without much hope) and will keep them

subject to your order. If however, the family would accept to 10 or 12, I would probably Keep them.

I have delivered, all but one, the 2º Vol. of Jewera Which you sent we some time ago. It is excellent and that work if ever finished, it will be a splendid work! I will be a splendid work! I will be a splendid work! I have share that they it wow in Europe and the house share that I keep it will they return? I have 24 Bole! Collected for you. Mil. Morris of Germantown, D. B. Smith of the Pa Hospital have not yet paid.

I have down nothing in botang this year. I have not yet received a Shaw of plants which Englement told me, last sping, he was ready to Send me. His he Died of Cholera? I feel lazy and old since my accident and the Circomstance of having removed my letting & collection in a 4th Story soom of a house where Shave moved last spring, has rendered my visits to that Sanctuarium mon difficult and rare.

Believe an very Sincerely yours

E. Durand

How are gon going on With the Horth-accordant flow.! Could you not bring it to a level with Decandoli's Prodrowing I hear had thords, occasionally, against you and & Torrey; but these clouds will soon disappear when the west humber will throw its light upon that past of our obsume florar.

This. Lept. 27th 18kg.

Revar Humenty Chubridge Mass. 4

. Dear Su

After putting a like 125 specimens of Me Dakes collection, which I had not, or which were teapling by their beauty and general scarcity; this making in half of the price you were asking, I have concluded to retain the whole for 20, as required to gour last note. It's Morris told me periods you bottom on the 22 vol - and wer Porter, Had settled for the 2 first volumes with you. Thus the inclosed check will dettle the whole meather. Please to acknowledge the receipt of bo Dolls. I'm layelman had, last firing, Written to me that he was ready to distribute to subscribes certain collections from the

far West. I have seen nothing as yet. I permen The great fin and the cholera have present in him from fulfilling his promise. I reget alez Feuster has given up his Exploration - Jour of the Salt take plants would have mirely completed my Collection of north american plants.

For God, take finish the 22 vol of your flora, that I may have the hos bound tagether; they Spoil, civides as they are.

Thave not yet received my plants from De Tourey - Their abreva form a great gap in my Herbarium, which I should like to Leplewish.

Respectfully yours

E. Dirand

D. B. Smith has not paid wer as get; but He will doit - Perhaps is he absent from the city.

the state of the s

Cambridge han to Hurran Underedy Not. My

Prof. Asa gray, cambridge. Dear Sir, This is to inform you that Mr. T. C. Potter, Who was here lust wear, hus, at my request, taken the 22 Vol. of sour elles that it genera intended for Il " Barton Who will not return for some titen. All- P. Tells we he has faid this second Vol. in advance. As low as I have been faid by Mij, Haynes, D. M. Swith of the Pour. Hospital, I will veed you is 2 Doles Which will settle the Whole account of your envoice. I have offered bakly' collection to several aunteurs, Laune I 112 Potter included, but all find that then are too few zan things for the price. Veryrespectfully E Durand This oct 22 1849.

Havas hiventy lawhing

Peof. Asa Jerry, Cambridge.

Dear Sir,

Enclosed, I send you a check of forty Dollars on Farmers of Mechanics Bank of Philadelphia to pay for the set of plants which you have been good enough as to reserve for an in the Second collection of Mr Ch! Wright. I thank you for having left out the Specimens which I had already received from Lindh. and the first of Ch? Wright's Collection. I assure you that I have many daylicates of their Texas plants, having received, besides the above, two large envoices from D. Hale, apper Louisiana, Notall's arkenses Collections and a private collection of a friend of mine in Medagorda:

Lubourer in the fields of Botany. Great praise is due to gow, indeed! With all gow have down already and what you have this in hands, You will be the northern that of American Dot accepts and your name will rank with the most illustrious in our Science. Much ! Marte!

How can I procure the humbers of Inithsonian court butions in which you are problishing you enumerated? Please to remember, may I car sir, that I trust in you for receiving all that will be published on both american plants.

in Ulaw and those that may be forwarded to you from Bregon

byto Rev' Me Spalding. If you see Me Nuttall, remember me to him and ask him Whether he has received a small package of plants, loketed by Feadler in his last unfortunate Short empedition, which Dr Englemann forwarded to me with the last environment Lindheimer specimen. I gave it to the Captain of our of our Liverpool packets and wrote to me Nutrale to have it claimed from the Captain.

There been hard at work for the Whole Wirter and theing, in arranging my my collection and changing the fapers. There are no opted a larger form. It is actorishing how fort they accumulate upon you by exchanges & farchases. There can be worked to barting. I have enough inter over ful to form 10 vol. more. I but a large truck fall of granine we & grana to her cartin to arrange them for me, which he has I our to my great take petion.

Farwell, my den der, and believe un respectfully
your devoted friend
. E. Darand

This. May 29th 1850).

Thope & Darlington has not forgotten to will you for the second se of your illustrated great for it I save time ago.



Soft Ha Gentler Chamber of the Mannesser.

50

Rof. Asu Gray, Cambridge, Marit

Thave before me your favor dated 5th instant. I feel much obliged to you, indeed, for your Kind offer of a new set of plants from We Weight & Collections mude in Texas in 1857852. Thave, dear Sir, Several reasons for declining this

favor, which I acknowledge with many, manythanks.

15, I have given up my Hore to my son, retiring from business with a moderate income which does not permit me any longer to induly in those delicacies that the good mill of the corner of 6th & Chemint afforded me heretofore.

2º I have already so many duplicates of Jesses, Hew mexico, oregon and California plants that I am afraid to increase their number by the acquisition

of that new set. I would rather paymore for each specimen and limit the number to those plants only that I do not pouce as yet. I think this wood make no

difference whatever to hew subscribers that line not partaken of the previous set, and it would add so much more to the sum intended to indemnify Mr

Wright of this trouble and expense

bly to the specimens I have received through you from the far west regions.

In retiring from business, after a laborious and faithful lances of 23 years, I had in view the employment of my time in the strady of botany and the arrangement and Keeping of my large herbasinan and in other labours which my re-connexions with the Academy of tratical sciences excipt afford to me. I had hurdly set my foot an ever in the halls of the Academy that I found three collections of plants made by Dr. Hermann, wood hours of Kern, in expeditions through Texas, It. Mexico and California. They collections were immediately confided to me (not as the most able, but as the most willing and most insecupied) to put them in

order and determine them as few as possible. This task I have accepted Without flindling and I am Juy I have partly accomplished it with . More Satisfaction than I expected, Without the aid of the microscope, Which the bad that of my light do not permit we to use; but with that of my own Collection which contains to many authoritical specimens. I have done already with two und I um to begin the third and largest.

As far as the publications of yourself, Du Torrey and Engelman and Decaudole's prodromen go, I find no great difficulty; but farther I am longlitely at a low . I have no books, nor can I find any in This's to lead me in my investigations. I have not even a lopy of Endlicher and I shall have to borrow that offy of our friend Durlington.

How, my Dear Sin, would you permit me to send you thoughtenty Which I have not been ceble to make out, or which are doubtful to me. I have no doubt but you will find something new and interesting among Them. There is among the rest, to beautiful tittle Californic plant which has perzeled me immensely. Its brillant purple flowers are very large companie to the dwarffish siz of the plant and are to delicate in tenture that its character is difficult to excertain. at first light, I mistook it for a pinguicule; then for the orchiden and tasty for a fasticion. The enlight cylindrical, about 4 lines long, moneyetal or 3? Divis broad thinks, Dir. irregular the appealonger. The lorolle irregular the 1 Super tests broad or 3 oval, purple, the 2, inf. potal, division shorter and narrow oval, tubo more than one inch long, infundibuly format top. the flower assillary. The Leaves appoint, eval with a few teeth at top, 3,5 veined. Stem sleaver slightly villours. The fold of the jet als formed a Kind of ungular projection which appeared like a Thur and could my first mitable. the flower is evidently didy more and is monthon from Euchin breadth. in the dry that the dischouse fter petals we wither to much to each other and are to delicate that, even insurered in hot water, I could not depart them nor ascertain their number and regular confiquention.

Would you be to good ulso as to indicate to me the works I could consult for information on the families which you have not described. Would to god! that you could terminate your north unericum flow. I think you have how materials enough to finish this grand undertalling, which has been So long and to and outly expected by the botunical word. Has D' Forey published his 32 report of Fremonts Colif plants of he has, try to process it to me, and do not forget me, I benech you, when you publish any thing hew on our Western plants.

I have proposed to the Academy of natural sciences the formation of a special north american herbarium, made up from all the 1.a. plants Contained in their large herb. of about 60,000 species; from Severel private herbaria (Maj: Lecoute, Reid, Hei) and from all the specimens of my own herbasium which the Academy does not pouce. Such Collection would prove extremely Valuable to hative and foreign botanists who wish to become acquainted with the vegetable King som of this i nemens region. Dispersed as they are in the general herbarium of the Arademy they have become of a very difficult and troublesome access. This for me is a laborious undertalling; I do not expect to accomplish it Willand forme blunders, but it will greeduckle become mon perfect by the corrections of abler botowith that will follow us. At all events, it will form an Eumen reporting of the regelable wealth of M. Accourage send will be the more Valuable us it will contain a good humber of the original Specimens of our most eminent botanists and will than form one of the most conflet and interesting collections in the country.

Forgive muto have detained you to long and believe me Very liverely your heart abt servant E. Durand

Prof. Asa gray, Lumbridge. M. t.

My dear six,

Our friend Th. S. James, Starting tomorrow for the horth and ologying at land bridge purposely to see you, Southesital to trouble him Wette a package of California plant, Which I desire to subjuit to you. They have been brought by Dr Feerman of their city, who haventrusted her with the care of ascertaining their hames. Al though too feel incompetent to the tuill, on account of Try poor eyes that are not inpuble of using leaves, and also for the want of book of reference, Itill I denied to try what I could it. Than found it more difficult than Sergueted, especially to destinguish the minute and delicate points of disemblance between certain genera of Corymhiferon, and I had to call the assistance of young Dr Holgano, Rephew of De Engelman, a very Clever young Notamist. They Intention Was not to Send you these plants before having studie Them Thoroughly and given them cell the names Which in may Jugement, belong to Thene; but the opportunity offered by James' Nint to Course bridge is too favorable 120t to take it up. Consequently I have packed them in a harry with limple heard marks on the papers. My hoter and descriptions of the Specimen I consider as how are not in a condition to be transmitted to you.

You will find half a dozen or mon of these plants marked here to far as my references go, they appear so to me; but I feer

They will all be familian to you Who have seen to much and are to Well provided With books.

The first is an Argemone With a 3 sepal culix, bearing 3 or b heard and as spinon as your A. hispida. Should it be the grand flow of kind. Whose calif you day is not Spinose? The leaves are somewhat similar to the Mexicana Ifher, I call it Heermanic.

The Second is a Malvattune? Which I east marriboile from The Economblance to The Marzabitem.

The Stind is a Horackia, I believe, which I do not find describe. it looks sunch like a lattigrus. The H. decumber, var. epabinecula, T. is the Same plant as spaling's spacimen, labelled by you, It (Syrmatinus) Decumbers. I do not recollect in what it differ from the description of Endlichers Syrmation. I findit very disienunt to Muttalliplant labelled Horackia decumbers - and if Mattall's plant in the transcense bens, Certainly this, my plant and spalding's, are a distinct species. The Legumentere generally uniteded, Sometimes I Seed.

The fourth is a Sumbucus Which I do not bee described. The Specimen tabelle Galatella hus given me much trouble I have handed it to Dr Hilgard who thinks it is a falatella. I find to species university to it in Decandole, nor in your publications. The Atter, I have not examined as yet - hor other coryuntifora, belong - my mostly to the genus Buch aris - all of which are now in the hunds of De H. The plant labelled bricameria, and, I think There are four species of Hemizonia or congeneer, Which I have not sufficiently examined.
The fifth is a New? Navarettia which I call vestita from

The Comenters conting covering the califixe.

The antirelianue and anarchemen Shave not Lookedyer Whether they are described or not. I with they are now.

The Cordylanther filifolius was foundout by De Hilgan, as well as what he considers a hew genus. Which, on account of the hubitus he has hamed cerustodium. Sper. Heermanii.

nichesthena lancestation - has been a puzzel - if it is not latincolation, let it be callet oforationimum - der What Florgand pleasant

How, am I right in obione occidentalis? I had Jean I we all the Collection from California and New- Mexico, but I had never because to make it out. The Pterocurya Cuneram of Nutt. has put me on the Sunt, but Pterocarye of De belongs to the family Tolygulea and It was a great jump to look for it in Salpolines.

What is the plant marked croton? it is evidently in supportionen Which I have not get examined. I have marked it croton as thave the Jam plant from Nattall Thus marked (R. 1/2!)

The 500 6 eriogonum, I have not examined - I think two of them are allutitated in Tremonti Esport by De Forrey.

I write to you in a great hurry my dear Sio, So, excurmy but english and recollect that a frenchman and not an lumerican, is writing to you. Offige me to investigate theor plum as som as possible, to as to return them to muly our friend Fuseer, Who will return in a few weeks - they ar - wanted by Artecrum Who has a report to make. With the expectation of Jeing you during your vacations, at 116 South 9 - St. Siemain Very respectfully yours

Hopenor Hafray

Java . Chemberity

Prof. Asa Gray, cambridge, Mant.

My dear Sir,

Although I have frequently refered for impormation to the two first numbers of Planton Wrightianoe, It was only yesterday that, perusing the entire description of the New yessen Mortonia, I read the complimentary notice in regard to me, with which you terminate this paragraph.

terminate this paragraph. I thouk you warmly for the Sentiment expressed and, if I regret your being anticipated by Mr Planehon in the employment of The name Duranden, it is more on account of that Speakable und heartfelt testimony of your particular esteem than from a sense of Worthiness on my part. How little do I feel by the lide of that ellustrious mun, De Morton, with Whose name you have honored that beautiful plant? I sent you, the day before yetterday, ince great hurry, a parcel of plants Collected in California by Differenan, during a military expedition across the Continent. D' Heerman in a good muithologest, herpetologest and God Knows what else; but he is a poor Collector of plants. his specimen we scurty und imperfect. He requested mento determine them for his report und I accepted, brusting in you for assistance. I had hurdly begun my last , When our friend turnes apprized me of his departure, in a few days, for Cambridge Where he expected to see you.

The opportunity was indeed to good to neglectit, in as much us he promises me to bring them back, when he return Be to good, my dear sir, wto examine them at your learner to point out my errors and lave meetrom others, by giving in at once the hames of they last families, for the study of which I have no books of reference.

The four or fix- Coryndiferous plants which I have least your under the doubtful name of Bacchain, Seem, from the impedient of D' Hilgard to whom I had given a few heads of them, to belong to the linosgris (Chrysothamen of Nattall) But I find to Specific description of them in your problecations. The Specimen marked execution is very beautiful and cutorestings my Horackial athyre in blown up, I think, by the lotus pinnatus of Hooker, mentioned by Cudlicher.

The specimens are to searly that I cannot say "help yourself liberally"; But you will do your best to make up a sample of for your own collection, should any of these plants prove new and interesting to you.

I regiset, my dear sir, that I unticipate great pleasure in receiving your visit at he 116 South ninth street, if, during your vacations, you love to our city. I remain, timesely your devoted friend E. Durand

Young Dr Hilgard Will prove a good acquisition to Philadelphia. He is a mild, modest and very learned young man.

This Delphia June 232 1854.

of which I have not seen the descriptions. Have you not published more than two numbers of Planta Lindheimeriance and Wrightians? if you have try, I beseech you, to procure them to me. I mote to washington to procure all the batanical reports that have been published by the government, but I fear they are difficult to obtain.

Prof. Asa gray, cumbridge.

Dear Sir,

I thank you for your notes on the California plants which I Submitted to your examination. I send you small sumples of those we have thought, De Hilgard & negress, to be new species. I am sorry that the Collection by Dr. Heerman has be so spure as to make hardly 2 spainers, our for Washington, the other as a recompense for the trouble of describing them. but in Scientific meathers, all for the public! Tong botanists, as myself, without much experience, are very left to increase the humber of genera and species, when they have but the Shadow of a cause DIH. has writed upon making a h. s. of our engencous. We have found, on Comparing with the mexicana and the grandiflora that it differed from both by its I hotter per uncles, the form of its leaves and their great glaceae Tity (almost White) It may, however, as it is your opinion, be simply a variety of the mexican. I have in my herb. a specimen of mexicana, var telba, almost spinder, which I have collected in a garden and Jeems the Very patern of the figure of Lindley's grandiflore, but own is remarkable by the above points and its spinorinimon every parts. I pray you to pay a particular attention to our Linorgen hivea and cricacea. Our lette cerustodium is in the hands of Hilyard who I tudies it with his microcope. I will send you a sample in a letter.

We will, Ithink, insist upon making a new genus of it.

That all Huttalls' Honacking. I send you several specimens
of his species which I think are, in several instances, the only specimens
in the country. I send you also several Ericacco which I cannot
make out. Hear to return them as they are all I have of the same

Me James put in my hands your letter requesting him to send you, from the herbarium of the Academy of N. Sciences, a Sample of the Lencothor accuminata. I Went there and found, in the Sheet marked Lacuminata, a about four distinct Species, but not the Laurina of Michaux. The piper them Kariety species was there, a unique specimen which I proposed Dr Tautzinger to lend you; but he opposed it, en against the by laws of the Academy and I had some trouble to be personited to send you I leave and a coryus in a bad state. Lecoute was there and said that this hollow steen specimen was the true accuminata.

Not entirely satisfied of being refused a sufficient specimen for you in this quarter, I asked to be the herb. of Lecoute, given by himto the Ares. expecting to find their numerous specimens and being with the donor, withhinagreement, I had never seen I. sherbar. and I expected to find a full and hand Tome Collection of Southern plans But Hell, me miserum! I found & smallinine Specimenging large Theets of paper, which I would not place in my own herb. There was among them are unique and small specimen of a plant labeled Andromeda acaminata, widely different from the specimen down the Which so had amored her was the true accuminates. How is it, manjor? Well, Jaidhe, I must have had Jour reasons to labell it so, as I have trudied the gener thoroughly; let us compare and Hady them. We found in fact that the accurinate of The Elliott was not the accuminate of Ait, the formainine of Burts. nor the laurine of Michany . Lecoute's specimen was the 3 last und consequently the true . The Hem pipe wood is another species. I got 2 leaves and a coryub of the latter, of which I found 2 Specimenin my herbairs 1 in fruit, the other in flowers, Which I dend you Micheny lewine is Well named. the leaf is exactly similar to that of the lawren habitis

The spinulous of the of which I have fire specimen seems to me nothing but a variety of the axillain, with longer, harrower and spinulon dentations. I send you feveral other of my cricace for inquiry. The neglocarium liquitima of Willd. is certainly not, the Lyonea liquitima of Decandole, of mylocarium nor the Picris philyron folia of the same, or I have two distinct peeded? I have is going to write to his friend Ravena to send good preciment of Lenother acuminata.

I expect to see of Torrey, who has amounced his visit to This. to Fantzinger, with the View of examining the new genera of Corymbifera of Nuttall. They have not then in the Academy, but 3. wrote to De Torrey that he thought I had them. I believe I have - at least 2 or 3 head unmand her genera.

Nerg respectfully, my dear sir,
Your hundle servant & friend
ED want

I find nowhen in December the name of Mylicarium Ithought that the Myl. Ligationen was the Pieris phylly recepction &c. but it is that is it?

Direct theorem rettings This. aug. 16 1/4 1854 Prof. Asa Gray, Cambridge. My Jean Sir, I have just returned from West-chester Where I had the pleasur of a long convenation with Dr Darlington, who we few days before, had lean farmer. The subject of your letter to him based, of course, been introduced and was renewed by the Doctor. Thiusting that his plants might be interesting to you, He brought we at the railroad cars a touch puckage, Which I have spened les soon as I have arrived, to congran with my and round on. I stow send them to you with new specimens from my own herbarium and a few penal hoter. To there I join our h. gener Carastodium and the new lastitizer. These are forgon; but I add The Jame request as D' Darlington for the others Which are the only Specimen I have if however you find any duplicat- that may be agreable to your, You are Welcom toit and them.

Very Enquerfally E. Durand

Prof. A. Gray, Cumbridge.

Mon Cher Mousieur,

The sworth has past without auswering your obliging letter of 24 to 225th atterior. In the first place, I was expecting the return of our friend James to here about De Davolingtown specimens of which you had not said a word in your letter, and in the second place, I was desirous to inform you of the attentions we should make in our leport, in consequence of your good advices.

breaking down our Cherished Corethraggen hive a sext in low deeply. Having under ing egas two specimens, our marked by Muttall C. Vergeta and concertably you in your own hand, into C. towentelles, and another marked by Muttalk himself C. to mentella also, I was somewhat thit ittel to say that own was not the towentage and that in this respect, you had not exemined it with attention. Insisting of course, in our former Niew, we began a new examination. But, lo! We could not find any more than Wide rounded leaves fort in the towentum of the structed of them, we found several withered leaves fort in the towentum of the structum of the survey and we returned to the description. Oh I then we began to south our suggesty and we returned to the description given in your flore, which and search our suggesty and we returned to the description given in your flore, which are survey our purpose. It appears that the round, that and semi-accuptance can fraction and regular industrious.

As you say, my dear sir, this genus requires revision to me, who judge more physiognomically that otherwise, not being able to use the glan, I see two very destinct types in the four species I have in my hersarium. The filaginifolia and vingeta of Nuttall (which I tak now lab fornica, Routh, belong to one category; to ment to mentalla and Vingeta of Ton. I Frem. belong to another. I can no

Neone look upon thos- two pairs as congeneers than I ken a round headed Databaum and an oval faced felle blood of celt. Look on one side at the large hericaphining involvere beed of the former and the delicately turbinated one the other, and you will be satisfied that, although they have the same neutral liquid flowers, It is they have no typical likeness. The same might be said of the genus Dicteria. If the leaves of the two first Courteroggue were not simple; I would say they are Machocranthous; while the others look like some species of dicterias with turbinate involvers.

Our Argemone We have made a variety of the Mexicana

Our Horackia Heermanic, We have made or bicularis; Hore. ined.

With the restriction: "if not, H. Heermanic. Me have low pared it with huttall,

Drepanolobus parriflorers, which is undoubtedly your H. microutha, they have

no more relation to each other than to the decumbers of huttale. The D. parrifle

is quite a small plant, humifure like some luphorbice, with very minute flowers

und leaver. I had occasion, in an auswer to a letter of D' Torrey, to lead him a

specimen to comparate with his plant, but he has not favor dive with an

The H. Wrightin you have found With the physoper microuthan without were without were what it was . I received it from De Heerman's former collections in Texas.

I am a bad judge of lolon and tall frequently blue what to others is Violet. Hence my neitable in the Color of the flowers of our Malvartum Marrabioides

We have retained our saintanen Vernicona. I think then is very little difference between I pecies and Variety, When the caracter is Constant. According to Herman all the sambaci he found in that region are tomentoise. The leaf of the mexicana is their and glabrous as our canadensis and our sambacus has thick and corraceous leaves. The berries are Dankpurple and very agreeable to the last, if law not mistalled the fruit of M. is green.

form of the head of flowers to caracteristic of the other species. It is owing, without doubt to the more redvaned that of inflorescene in our speciences which have almost extraorical head.

Whe linesgen recurve we have changed in ceruminess, on account of arming

to mentum, Similar to car-wax, which cover all its parts. beside the leaves of the branchets only are received; thou of the I ten are traight.

You have talled exiles. It has not, however, the habite of the gener and might belong to another, but it is not in a state to be examined with satisfaction.

Our long lenon Arclepias we have ascertained to be the macrophylle, Wett. a variety, comorn Gilia elongata differs somewhat of D. L. description.

Neuthan scalles no allacion to the appendices existing in all our specimens.

of the obiona and eriogoutem of Which he took small sample when in land idge. We have made a new spee of one of the Obione, the other, we think in the Barchagane. With 3 Priogonium We find no description of the others, in Hooker, Muttale, nor forrey.

Andromeda accurinata (the true) made on the living plant.

Folis luncestatis acuminatis, acute terratis, Impremis integración margine subservatais, Coriación, lucidis, glubis. Racemin parvis, 6-8 flor. L'implicibus, axi Claribus, Subseculibus; Pedicellis bruetesta; Floribus Conferty, Corolla alba, Sub urceolata, Culix elractectus; Hamina hiesta; cunthera mon aristatis. Lamin fistulosis.

With all this, my dearding I bid you farewell and thank you warmly for your obligerace.

Nerg respectfully your friend & Durand

Cambridge Humand Expense

Prof. Asa Gray, Cumbridge, Man. Dem, Dem Sir, Tolo not Know how to express my gratitud a for the indulgence and condescension you bring in your correspond one with me, in reference to my rash botunical undertaking. I have not a sufficient theore - tical Knowledge of the science of Botany to discuss any important point with you, but having confined my self to north winerican plants and having handled many of them, have acquired a physiognomical tack Which enables me pretty well to find out and if the family and gower to which to plant, seem for the first time belongs. I am unable to study the minute organs for want of a good light. Tou thouson, see migdeficiency a, a botanist wind you will forgive the great ignorance I evision in their matters. If I could use the microscope, I think my geal for the livine could carry we along My mind was perfectly made up as to my controyun being your to mentalla. I have attentively read your remarks both in your letterand Hesse and I thank you for them. At your next visit to Thisadelphia, I will thank you to see If I am right now. I have in my herbarium four species of love - trogger. Nº1, marked by Nuttall C. tomentalla, Aster tomentallas H. HAM., It Diego, is the Jame that that that had labelled virgata in herb. Acad. Science. and you had corrected in your twinhand tomentalla. Til evidentlythe Encure of M. Cim. Fl. With literar-lunecolute, erect and stightly douticalate Leaver, Scales glandular vicies with spreading tipe. 11-2, marked by kuttake E. filaginifolia, Monterey, with spathulate, and sharply deutat leaver, is right, I have no doubt. There are the two I compared to a round headed dutchman. Their timolacres are herispherical and the head? much larger than the following -1123 in the c. Virgalon Bouth (Fremonti plant) I danday; Thenthe 4th is our plant. It is not heaving to send we your, I hope I shall seather most

Spring at your own house.

Stead you herewith three samples of Horackia, very small it, is treed, but you slaw how enignous are the specimens of hattack. One is hattack I Depended out towentown, the other is his passiflown Which I have to doubt it the Horackia micrather of M. com. flora, the third is what New Methods Calls the Horackia micrather of M. com, flora the third is what New tells calls my H. Occumbers, Bouth, With long pedenculate unable. Tow will sent that my H. Herrmanii has no temperature as many them. If spalving plant the symmetry plant of spalving plant to hay first wan, our plant is the same as Bentham's plant - I go back to my first wan, our plant is it variety y labitureda. I begging up up and this subject. Of the 24 or 25 Horackia I have in my collection, most all have long many sealed legames, except migne, which is gave tally, I seed and larely 2. Spalding Sample, which is generally 1 seed and the decembers of Newton, which is 1 or 3 Steeds. Huother other has a flat I seed begune.

Mie Very respectfelly your friend and Tervant.

C. Durand

hertarium for the Academy of Sciences; it will be riching for Western plant,

Prof. A. Gray, Cambridge

Deur sir,

Irejoice that my bits of Horackia have been a greeable to you and of Jones use; That sent by you is trady our Hermanic which we give as synonym of H. decreabens, var. grabinscula. We decidedly make a new species of our Argenous, which we tak munita on account of his numerous defferince Weapons. It differs so much from the mexicana in the tenture and habitus of its stam, branches and leaves that we think ourselves justificable in so doing. You will set us right at a future time if we are wrong; When you have occasion to see better specimens. We are going to publish all the new species and varieties in the proceedings of the Academy, en attendant that the whole appear in 2" Hearmannis report to congress.

I have looked in vain for it in the herbarium of the Academy, although figuring in the index. I presume Nuttak took it away

With him when he deturned to England.

I send you eaclosed a bit there were only 3 such) of a succeedent agreatic? plant, without leaves only with long well bracks nearly as long as the Stipitate head of flowers figuring a longuisterous plant, which I have found in an old package from De Short, with the following inscription: A plant from blisisipi untlesown to De Torrey and gray; do you know now what it is? I am much obliged for your Kind invitation and receive very respectfully your friend E. Durand

Prof. Asa Gray, cambridge.

My Dear Sir,

Written in Connection with D. Hilgard. Please to look at it with indulgence and be not offended at the mention of your name in the description of our Argemone munita. Since there descrit in print, it looks to me as an arrogant presumption on our part and an infraction to your great an thority, which we were far from intending. The specimens passed rapidely under your eyes and we had them a long time under examination. I have since been another small specimen in another Collection and Jam the more persuaded that the habitus and texture of our plant are more like thorog the fragaver sominferum than of the A. Mexicana.

in my hands by the Academy of the Sciences, which I have arranged in families and can now cursorily examining. When this first part of the Work is done, I hope, my deardir, you will permit me to tube; those plants to you, that you may point our errors and what is how among them, before I undertake, with the unistance of De Hilyard and his microscope, the more derious task of determining and i escribing, in which hope to be more successful than in the first attempt to the collection has been made by an amateur,

The specimens are of course, generally very imperfect. It its there are many beautiful, rare and perhaps new plants: among them; I recollect the following:

Aquilegia formora, Nutt. Asters, Withgood spec. of A. Durandii Delphinina, 4 Sp. (medicante, bicolor te) Serico car par, 11ew? aff. lotti olius with Dietytra formora. Verylarge hendrof flowers. Viola, 4 spec. 2 Curious caulescent, un Trasera albicantis. with long Jacumbent Hems, with about Azalen, With beautiful large flowers Polinioniacea, many dance of yellow flowers and leaves Trophulariacea " Very large, Variously Thaped, the most prominent of which are almost of the Labiertoe " true Thape of a human hand, 2 Euranus The other with round, many parted 2 Archepias (Longitornis) leaves similar to those of V. delphinipolia. 4 Eriogonom, which I have not Hypericum, 2 spec. in my 30 000 species.

spraguoea, only un umbel. Irideoe, Amanyllidece, liliacece Censother, 5 Spec. one ashrub With leave Colchicaceae, Le. Le. among which 3,5 deutate at top. Brodieu, Tritelleia, Culliprova, Cullo "toiackia, 4 sp. ou the trug randiflora. Chorter, allium, litilem &c. and Lupierer 6, .. one falcifer, New. Several other gamen with which tame Thamostatia, Benth. published by Forrey. unacquainted. large and sealtiful Which that pointed out at once as specimens of a Veratum, perhaps viside, a new generalthe cercocurped Bat of all these plant, that whim I was tribe, and was describing, when I most happy to Discover, was the Picker-Esceived the Im. First. publication .- ingia montana of which I have I small Sovio unbeliferous plants, among which 2, any Lune of a much respected friend. tiece tieber. It brancher, like those of your Olneya, Osmorrhiza with short reflexed styles and being terminated by a spine, the fel. leaves very different from the brevitylis few in Short axillary rucenus, I thought icreaus Nuttallie for a While that I could ferrish you the

mean, of Completing your description of that hew legumines a but the finate leave, introp of technology into the flow the package of Planto hovor Shurberiand and affinition of the gener vavore and of Rhytidandra. I thank you for the copies address to me, I have distributed the other, Without loss of time. Remember me to Me Thember, when you her him, their anoth acquaintance and I beg him, if he has any duplicate to spare, of his California plants, to send them to the Phil. Ac. of that view fam Working hand in completing a special the am herbarium from all the Collections I found them (Courad, Lecoute, Read Lothers) from the large herb. and my own, which I cannot sacrifice in a Setter cause. If you have yourself, my dear sie, any think to pare, I am better disposed to beg for othersthan for myself. Do not forget, if you please, to enlighten me on the queent perimen I must you so me time ago, Collected by Short in Ministipi and label and so we take Some forms.

Sam with much respect your devoted friend E. Durand

Mussachunde Cambridge

Prof. Ava Gray, cambridge.

My Dear Sir,

Four favor of 615 inst. hur duly come to hand. I thank you much for your Kind remarks and for the error you have sointed out. both are mine. No doubt you will discover many attemby preming it again and you will obligan to point them out, that the publication of our fall report below faulty.

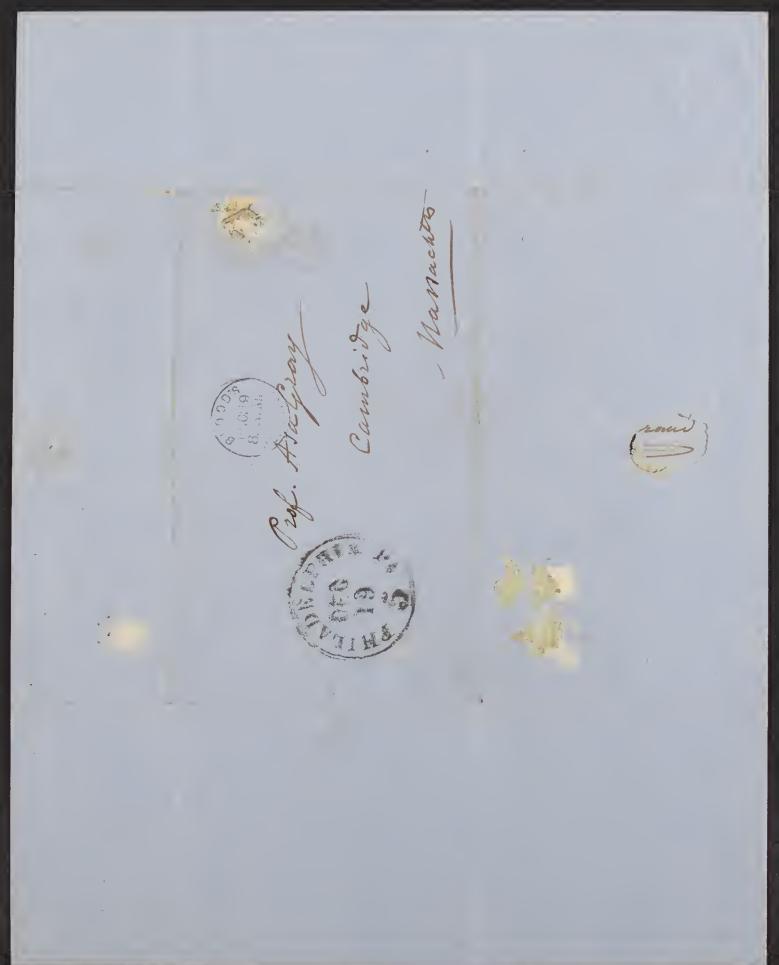
The great defect of our labor is that we were working departed, Whist and altered and corrected. The whole was done in agreat herry, wethout having time to revise conjointly, as De Heermann was on the eve of his departure for another exploration and hurried in anyfully to deliverable his reports before starting. We were also hurried by the publishing Committee of the Acad. of Sc. who had their journal ender free. Besides it was the first attempt of lither at describing and writing latine and we had no time to submit our labor to the revision of long, etent judges.

From Heermann's notes, I see outto Chart the route followed by the Expedition.

Most mames are new. It Started from Buchicia in the beginning of July, ascended the Jam Jouquin river to lake Jale, crond King's river one of the feeders of that lake; The the Mohahor river and desert to the Californium Colorado Which lake; The the Mohahor river and desert to the Californium Colorado Which lay crond some 80 miles above its jonation to the Gila. Hence they entered the Country of the Tejons Judians Where the found the Tejon Valley Pan and farther down the Pinner Villages on the Gila river. Pora Creek must be seen between the Colorado of gila. Fort Miller, a new Port, howing been a tarting point, must be on the San Joaquia river.

Prejoice, my Dear Sir, in the hope to las you soon in The ladely he a. At I Know the Claims of our friend farmer upon your, I do not instrupen your accepting a room at my house, but I hope you will not refuse a diener with farmer and 8" Hidgard with whom I am very desirous to make you

acquainted. We will spend our morning in looking over my California. prients and then rest ourselves merigly. Do not refuse on this fewor. Unfortunately I have no fruit in my two small specimenof Pilleringia. I see, however, in a flower for advanced the proteading aprey of aleguma which may prove of Some service. It hall not touch it before your arrival I have Discovered another ereos: The specific name geniculatum has been applied by Wettall to an Eriogonum, befor as. How prolific is Culifornia in this puzzeling years, I have five other specimens different from the 50 or 60 species which I have in my herbarium of theat of the Academy of Sciences.



Phisadelphia Febr. 16 12/855 Prof. Asa Gray, Cumbridge. My dear Sir, I find it almost impossible to make uninteresting paper With the few new species that I find in the collection new under examination; It would be too short and in order to give it more interest, I have introduced in it all the in M. Hartw. Which you point out follants described by Mr. Bentham or by you'relf and Dr. Forrey, unpublished. Tour munuscripe descriptions l'expect Ito have and De Torrey has already Sent me the diagnoin of my two violet; but not being pronened of Il. Hurtwegiana Which is a very rare Work in this country and not being very us a mintalline carry made in such currorgine entigation as that you must a lertain that the name affixed to my plant is right? have made a description of my own plants which when Compared with Beuthanis, will prove at once whether I am right or Wrong . If wrong the plant will be mine, except its name. As in our muiden paper, I ulso introduce plants already described in your flora, our which I have Some observations to add. Tell me frankly the defects of my plan? I would give any thing to have It. Harter. Should it b- for one Douge - I will try to obtain De Torrey's in my enamination Copy. Than been as far as campanulaceon and have france my work to Hilgard for new observations I received, at last, an answer of Dr Torrey and I will Communicate to your some ofhis observations

Upon examining carefully the 3 erysima, asperum, arkansamm and election, the two last from Nuttall, the other undoubted, being canoscent, I have come to the James Conclusion With you'that They are one species, moreorless our stightly cauescent? Scabrous, With Deutate or entire cardine leaves and deutate runcinate radical leaves. D'Torrey's violets is as your wid, Beckwithie; Beuth. s Violet in Lobata. To far as my eyes permit, My Tolygala is cuculate, it is in Hilgard's hand, flowers, Which you have not seen, I call it aurantiace, Let makenow if Bentham mentions it about 7 inch high erect, 3 large flowers at top - leaves orate lanceolate attenu et at both ends, internoder 1 inch of a littlemore - Pelals bilobed with 2 small lateral teeth. I find in my herbarium 3 rar. of 3 auschneria, one from Heermann's collection might be a new species. The flowers we large of abrillant scarlet, Calix and all but on a long leafpy or bracteal I pill The Leave are exactly like small leaves of Rusthera biennis. The new Denothera, I call bilobate another one Which has beautiful! Corolle compandate fruggled me en good deal, is the rubicunday. The Ceanothers of Which you had a sampl- labelled oreganns is papillosus. In all those Specimens of leethyrus Venosus of find the polypotoglas Well Cuructivized and compared with Nuttall's . I will send my few umbelliferse, undersown to you, to D' Torrey to see whether he can tualle threw out. They are young and fruitless.

I begin to doubt my new osmorhiga, with its short Hooked styles I lee that brevisty is has also recurved I tyles in the advanced leeds; but the leaves are certainly different. My specimens of squaphoricaryon, I maller ones, but some times very elongated, I call it var auri Culata. Atter Chilemin is really radula, but with larger coryuly and larger flowers. Serieocarpus is really new, aff. tortifolius, it is neither oreganies nor the following species; unless we Bouth. has come before me. Send me, if you please your description of Leptorque Itell manini. We had come to the Jame Conclusion Dr. Hilgard and myself about my Dichaeta, it is really an Monologia; but, my dear sir, I could not make it a Variety of Benth. Halemifolia, It has more likewen to M. minor, judging from the description. Have you this and could you Compare them! Thave made at all events a new sp. ofit; I call it lobata. Our plant is much branched from the root upwards and all the leaves are 5-7 lobed, without exception. The flowers were much larger, rays apparently entire but With two small task at top. I hould the lower part of the leaf be called petiole or is the leaf linear with linear lobes? I am Very wench puzzles with the trichesteina - my pretty oval having leaves may be a var of Beath's oblongifolia; but If the small Sample I send you is lancedatum, What is this which I have beca accustomed to look upon as luncedatum. its habitus is to different from the other trichestone, that it might nobeone.

When you have described the new commer, be good enough son to send me the description and permit we to publish is. with my glants. D' Torrey has send me the reames of town of the monocolyledones. He says about the Veratrum that it certainly looks unlike the Viride but I have been at a loss to found and ifference in the flowers." The Difference I found is that V. Viride has oblong petals, rather harrow, whilst this has obover petals - in the dry state they are purple, but they may be different in the green state, E.D.) He finds that the leaves are decided by marrower Than the eastern plant and he adds a The fragment gon suit we Some time ago, belonged, Isuspected, to V. Escholtzic, Gray-Praysee if it is to - if her I will call it, of course, californicus. The new asclepias is Acerates Cordifolia South M. H. 329. Cent vexant! I rejoiced so much to numeit. He ju jungled With my poor lille Asagrage - I regret to have made a mistake in it for Asagrage little flower is so pretty, you might have adornwith it a fine bouquet for Mrs G. Please to refer to Act. 20! Vol. 20! and look at the Aragraya of Lindley, figured there, if it has not much affirity with my plant, the 3 ame 20 tate potato, only the spille is conical, whilst here, it is extindrical. I am much obliged to you for ordering IT. Harter former I would give now tew Dollars to haveit. Escence my bad und corrections english and believe me, my dear six, your very much obliged friend. my respects to Mr Gray und faregon well The Collector's name is Henry Pratter of h. Harmony! E. Durand

Prof. As a Gray, cambridge. My deur Sir, Decidedly my poor eyes we not calculated for bota nical investigations, nor for much reading and writing. In punishment of huving overworked them, That's been Confined, for four wholedays, in a dwerk soon and same get male to work. With many thanks I return you your not. description of Leptoryne und would have joined to it one of my two I mall specimens of Polygela had not sent it to D. Torrey, With my doubted umbelliferor and all my endoyenous California plants. That Jerepared it for you but my packag - for D. J. being ready before my ocular affection and next day not being able to see I placed it in the package with request to compare it with Beuthanis in others and expecially the Very manifest surver o which Crowns the cueulus, or rather gulea, cumot have escaped the Observation of Mr. B. and no mention Whatever is much of it. notwithstanding the pancity of flowers in my spee. I send you One. Lour trichostema leaves arrived all broken in I wall fray many Still, I could d'itinquish the Imell of the small branch I sent you , which is my lunces late. It is attornihing that no mention b- mad of this very remarkable odor by B. in his description, being precion to this single spaces of the gener trickortema. As to the Ather small specimen gover you, It might be avariety

of one of the eastern species - It cannot be the oblonge folia, the flowers not being in Verticillesters or eyenes. My pretty little ovate leaves species puzzle me Still, although I am inclined to your opinion that it is a precediur form of the oblong follow. The small heads of Composite mined with the other belong, I think to the plant which you labelled Hurpoccupus mudivides.

After a careful examination the one flowered Haliomeri, has nothing to do, I think, with the Varieties of multiflore. There other specimen, 5 or b, from Calaveras, Hermenny, exactly the same. The ray flowers are abortive and oflower unquiculate, They are orang und thou of the disk purple, The Stem, leaves and especially the short petiols are quirings lovered with uscendent white conical hair, he. They are all our flowered with leaves opposite in some specimens, alternate in others, but very remote.

This, my dear sie, is us much as I cando Without structuring my eyes, Farewell and believe me your grateful friend E. Durand

My respects to your Lady.

This March 32 1855

Prof. Asa Gray, Cumbridge.

My Dear Sir,

Practicular of Plant finished my manuscript of Planta
Practicular which I entered presenting tomorrow to the
Academy of Plat. I creacer. It contains 11 ss. of Forr. If.

14 of Beath, and 12 of wine, besides several Varieties
and a Dryopteria unknown to the part, and may be
now. I regret exceedingly to apprize you of the inscript
of my young friend D' Holgard who is how in the
Tunation Azilum, upset with spiritual hallucinations.
I hope he will recover, as he is now perfectly sens: ble of
his state, promises to expell all spiritual ideas and begin
to read and occupy his smind in quiet studies. I have then
been deprived of his amortance and of sunch esteemed and
latent of friend.

When you read my paper, you will see that I am at Variance with you respecting the Dodecatheous. I have made a new species of Pratter & Herrmann Smeath plants I pecinear and thrown all the other forms into Varieties of D. Meadia, although much eaching to make a repeate species of Nuttall's oregon and California specimens the same as frigideem of cham Which is a much smaller

plant, with many more leaves at base than our D. meadia or Mp.
integrifolium. I have established my Diagnosis on the filament
of the stamens which, in meadia, are generally free and insected
on the throat of the corolle, without forming a ring or tester.
which he Pratter's plant, which is partly D. integrifolium of Die,
the lab formed by the filaments is very prominent, nearly as
long as that of the authors and totally violet, instead of the
2 spots that mark the base of the filaments in meadia. Ibelian
it is as distinct a species as can be smade. As to the other forms
there made them varieties of D. meadia, which I divid these is

D. Meadia, Linu. a. Our eastern plant

B. Mich. D. integrifolinum

y. Nutt. integrifol. Cham. frigidum

D. Ellipticum, Nutt. Dintegrifolium, partin, D.C.

it also a form of Meadia, his filaments not being mited into a labor ring. In sciences, we must have our conviction.

I have yet before me my letter to De Torrey whould expect every Day on a visit. At I have the same thing to lay to you, I will just copy what I say about neglect and askyon frankly the same advice:

Welhout suffering much, get I have an irraintible loves for our science and long for the opportunity of marking mysulf.

have read my next paper whether I have thoubility to latify experienced botanists; if my descriptions are recondum livereianne my language good enough, He. He - Brifitis better formet of stop, here, rather than to become a languing stock at bigean of age. Thirty wive years ago, when I arrived in this country, I had more theory in the Science than I have at present; I was from from the beaches and not rusty as I feel how, naturally, after a life of commercial activity, exclusively devoted to assistancy object - not that of wealth, I scorn it, but of comfort to my family and to my self-cir my old age.

Now that I have attained this object, I feel my physical and mental menen much impaired. If youthink, however, That I am till fit for any useful labor, Such as a monograph of some family, I will undertakent, Julicet to your tevision and with your existance and that of our friend hof- gray. Otherwing, my dear Sir, I will confirm my attention to the Completion of the M. am. herb. which Jam now arranging for the Acad of the I ciences and will devote my self to of her Hudie home can judg - houself, he went be judged by others and I assure you that I will feel under great obligation to you, to be Stoffed short by a friendly advice, ruther than have the usitification of being laughed at for my ternerity in undertaking a task That I am unable to perform. - My respects to your lady and believ me my deartir, greatefally yours E. Durand

Prof. Asa Gray, cumbridge,

I forward you by express my publication of Plantae Pratternance, solliciting, at the Samuline the favor of lew 11 of your opinion respecting this rash production. I doubt that it will meet your approbation and I regret it exceedingly, as it will top me short! How that it is in print, I feel that my ability has not been equal to my zeal, and I should have done better to Keep it a few weeks longer in my hands, to read it over attentively Theorthe defects I now see in it would have been Corrected.

The leasure time I have at my Command could not be more agreably employed than in Curening my dear hobby and making myself useful to fellow Botanisti, were I able to doit. Under the impromion that I would do something panable, I had planned a more geaph of the 12. a. Endogen, from Araceoe to Equidateoe, if you and Dr Torrey had consented to assist me with your experience and especially, 18 its the revision and correction of my manuscript. Under this idea, I had

Imported Kunth, But I feel, now, my image blenen, and the intenost venestion at finding, at pages 1014103, two great errors of the printer, which had escaped my entreaction, when correcting the proofs. Now how many more remain! I tremble.

In tide of the plunghet, you will find fragments
of a plant collected by D' Wood house in how Meseico,
Which I think, has not occurdescribed. It decem to belong to
tribe sanguisor bear of the Rosence family. I took it
and it may be one with aborishorain.
ext first for an Hockella, but it has only a lingle
achendum. It may originally, here had several
ovardes, all abortive but one; but having only one
specimen and no microscope, I have not examined
it fully.

The Henry is about one foot high divaricately and dichotomously branched at top, with 4-5 appeared primate laws belowth flereation and make 3 pare -ite buther branches. Radical leaves in thick tapts, 5-7 long, by less than half an inch wode, lance linear in their outline. Piance 30-40, attornate, 3 digitale as the apex and somewhat timesteat at base. However not humarous, all pedunculate, the solitary ones, in the dichoto:

Min, with longer pedunculate, the solitary ones, in the dichoto:

Min, with longer peduncles and all the poduceles with an entire or deutate bease? Calyx as in Horkelia. I have not seen the patals - standing thost - 2 stigmas? and

a single smooth, ovate-remisore recheming containing a single seed? It is a singular plant with the leaves of some aspleniums. I send you like thise 3 specimens of undroundar collected fory on by major Secont e who handled them to me just now. They are the Acuminata, mitide & axillaris.

I am, every day, engaged for How Shours With the Host the work was herbarium I am preparing for the Academy - I have fixibled the Soventhace or and draw freely from my own herbarium I assure you it will be a Spleadid work, as so much more complete than I had any expectation - I carrely any thing wanting except the Unitie plants of which however, there is a good sumber from lap. Parry's expedition and from Labradon If De Hane letterns, no doubt that he will curick us considerably Nuttall's original specimen, are almost all there, but, blen me! how from I are almost all there, but, blen me! how from I will tailly be contailed.

Let me have, if you please, your opinion of my views respecting Dodceatheou.

Begging your indulgence fora pooriguoranur, Tremain, my dear Sie, Verg respectfally yours E. Durand

This. Inu 26th 1855.

Do you think my Hant. Pratt. Would interest the Bentham? If so Will you give me his direction. It appears that you have not been able to obtain for me his Pl. Harvey; "una

Prof. Asa Gray, Cumbridge.

- My Dear Sir,

your favor of 13th utterior. I tando nothing but manual work in the Dog days. I have been sorry and very whanced at my error, but rest assured, Dear Dr. Gray, that I have not been vexed at your Criticisms - - - I, vessed against you, my dear six, whom I severe as the botanical luminary of this Country - us the most instructive, lesient and obliging friend . - Oh no! I thank you, on the contrary, for your frankness and I will, certainly, pestit by it, if ever - but no! I shall never write again in latin.

Alway, busy with my horth Am. herbarium at the teadeny, I enjoy a perfect happiness, because I see a result most satisfactory— It will be, I assure you, a splendid thing, as complete as I had any reason to expect. I begun, on the first of July, the great family compositor. So far, I have reached the 4th div. of the failland; eoc, that is the end of part 2° of the second vol. of your flora.

It has not been the intricate and purpeting undertaking I apprehended and, With the exception of a few groups of Species in the great genera Liatris, Empatorium, Solidago, Aster, Helianshus, Which I think could be considerably condensed, I found no great difficulties. From note, I have before me about the Atter, the Section Capitala parva is the most intricate—Pricoides, multiploses, dumosus, misser, tradescante and their munerous varieties, I found hopeless to separate them. I could find no lines of demarcation between

between conditolius and sugestifolius between putila, arguta and Muhlembergii letween altinima and ulunifolia, between Cana—
densi, scrotina and gigantea. All the section Maritimose are forms of sempervireas. Tolidago Eleottii, semulo me the seac chiptica of Ait and Ell. Only the Mosthera speimens are larger. In Helianthus, I see no striking difference between fetiolaris and leuticularis— in section folia opposita 3 new., with the exception of Doronicoides, the rest is a puzzle.

When I begin the Serious work of study, I contemplate some semants. I think I will be like you for Condensing! I am astonished, especially, at the sight of Muttall's Species - Except in the size of Specially, at the sight of Muttall's Species - Except in the size of Specially, which, generally, wrevery constituted by, I see no difference, except what exists between a plant grown in a good or wind soil. They could easily be reduced one half, although you have already reduced them tons dereby. Mere I only 20 years youngars I feel in me the stuff for marking, a good botamist and my mistally, I have no doubt, though fewer than I find those on the labels of the Readening berbarium. But now, I am old and my eyes and memory fail we. Touly letien my physiognomical faculty which is remarkable. (Do not laugh at my presumption!)

In Heermann is now in Philadelphia. He is an indefatigable traturalist, a good observer and possens an excellent memory. I showed him my Heliomeris simpley, Which he recollect perfect by well. He says he colvery, found it as my specimens, Stem

Timple, unifor and remarkable by its purple Disk. We compaed it with It. multiplorer which he also recollect, to have seen. They are quited ifferent—The latter has smaller flowers, lays manower and disk light y slow; the middle horse of the leaves very peo mineut, whist you can hardly distinguish it in my It simpless. I would, my dear sir, than cultivation can no never change the It. smaller into It. multiplorer than you can do the sevens by sowing the multiplorer in abad soil - Lew could handle produce an Italianier with a simple steen and only a flower, but it would not be my simples.

I was very much projected last Week With aspeciment of coreopers, bearing a single large flower at the summit of naked and Timple Stown. The leaves a specied to be all carillas but of two forms, some oval spatientale on longheary in I petiola, the other harrow and clongated. Henry scapiform, perfectly hasted or with a single oval and scrib leafrabille below the head. I thought I had a new species, but, on further examination, I incovered that the narrow leaves belonged to the Steam and hot to the loot, but they were all at the very buse of the Steam, then, longared it with remerces sample, of a lances late and found it to be one of the entire extreme forms of this very variable species. It is, however, a very remarkable specimen. In the Academy herbarium, all the harrow leaves loneopis are are huddled together in a know confused manner.

I send you a good specimen of the Diodonta (coregin) bidents -ide, News

I could have Jend you a pany specimen sincilar to that of Mutule Which you have Jeen in the Acade any Herbarium. but species at Daily, I had remarked the very long awas; but still I had placed it in may herbarium as a remarkable Variety of Bidens commenta.

More, my dear sir, I have Done and in time as I can hardy see how to execuse the if thereby on my letter without reeding it over to correct my errors or add words that have considered in my inthe stand, as it happens to me very frequently. My best lespects to gour lady med believe, sincerely your friend, be

Prof. Asa Gray, cambridge.

My Dear liv,

Darkney was presing so much won me last evening thus I mined surjugto you all I intended respecting genera Coreopsis and Biden. There twin brothers are not, I think justy Thaced. It seems to me that all the Diodouter of Nuttall belong rather to gener Bidens than to Coreopies. Although the apreadly and retrough bearded arms are & good characters, get the long and short or no how at all , are another not less impor - tant charactery has habit is also to be taken in comidera -tion in the natural system. I will speak here only of Corespis dioscoidea und bidentata with their very long owns; how how affinity with Riden frondora and counter then with the Coreoper proper and Itake them for Dioscoid variation of the two species, in spite of their upwartly bearded awas. C. aurea, trichostoma, wriston and involucrata have also more afficiety with Bodens Chrysanthinesides and cerma than with the corespois proper I think ther two genera require a new feature und the genus Diodouta of Nuttall might be a link between them. I recollect that Rafinergue is his herburium had made a timiter division, but I land find under what have,

And I had such mistruit of the man, that I paid but little attention to his changes and notes accompanying the miserable specimens.

Pray, what can be your new gones Neurophyllum in Membelisferoe? Being found in the vicinity of New bern Me. When the Archemora Cernata grows also; and finding no specimen of it in the Arad ency herbarium, nor in their had ency herbarium, nor in their me, both so rich in specimens of that locality, I have some saspicion that Neurophyllum might be only a peculiar statu of Archemora. Could you promomen a bit of a sample. I believe it is the only plant of lem. umbelliferoe that is wanting in my how herbarium, which, really, is a splendid thing.

in the course of my long and aniduous labors in performing the great task I have undertaken; but I will have to return to it more than once, when I intend to take notes and ask your opinion.

En attendant, pardon my importantly and believe me very respectfully yours & Durand

This August 8th 1855.

loose my Durandea, do you not think that Eldurounda would be quite Emphonic!

Numbermits Cambridge 1. Prof. Asa Gray, Combridge.

My dear sir,

Had I given full consideration to the above admonition of Horace, I would not have received the Stripes that have fallen on my pour buck. Notwithstanding the Imari, were I still young, for from regretting I would enjoy them fully, for I feel that I could projet by them considerably and I would have the ambition to do more and better for our dear sticence. Before sitting loven to my first liagnosis, and writing suco mode, if that I take, for half cere hour, such model, as De Candolla, Bentham and governely, inoider to give my first phraseology the regular and approved form, the succeeding part would have. been in the same strain. Heylecting their important point; my work has been a failure from beginning to end.

I thank you warmly, my dear sie, for your frank criticisms and for all the attentions you have showed me in every instance. I regret that you had notine enough to discover other errors that you may have france in the hurry. I have given up the idea of writing mono - graphs, it is too heavy for my shoulders! I will I top here except if any othersets of far - western plant, were again presented to the Academy of Sciences. I own, my sear sir, that my local feeling would not suffer them to go any where else for description, how ever weak my shoulders. I would still trust to your assistance.

In the Copy of Plantoe Pratteniance which I sent you, that already corrected 3 errors.

Next day, that abonimable unbellatiforniba, stared me in the face with its loath some reality.

I almost fainted with disgust and shawe, but judge of my despair when, in your favor of

3º instant, I saw the long string of errata — oh! then, I swore I would never again

Cause the free to groun for me - the prose, this treacherous Engine, alway, ready to

engrous on gour own faults!

Haw, in several instances, I have attered your and De Forrey's phease logg, is more Than I can say, As to Bentham's, it is less actionishing. My eyes, their, being very sora, I -.

marked the paragraphs which I desired to copied and entruited my son with that work. Unacquainted with technical toward form, and prend by the own concerns, he performed his task rather loosely and, no doubt, torministed some mistakes. But I had borrowed Attalling for three days only and I would not keep it longer. For the Word Douglasic, which I have repeatedly spelled with two 3, I beg pardon to me Douglas. But, my deard octor, I think it is as much the facilit of that gentleman them my own. Why, in the name of How! does he write his have differently from all the Douglanes I have Krown In writing a word so familiar, we mind the sound more than the spelling.

The obnoxious Caulis, in the beginning of try descriptions is all my own stapidity. Hilgard, the poor fellow! had nothing to do with my writing, except the descriptions in pany of Campanula prenanthoides, which is regular enough.

The wood remine in viola Beckwithin must have been also in the manuscript and, certainly it is not amin, as the spur is hardly conspicuous.

Tolies caulinaribus may not be as eaghorical to american cars as folies caulines; but I think both are equally good, though I confess that caulinus is more frequently used than caulinaris. From the latter, is our french word caulinaire derived, from caulinus is your english word cauline.

I your english word eachine.

I regret the printers charge of succiforme for sacciforme and my overright. However,

If I hav- not forgotten my syntax, since I left College 45 years ago, the adjectives of the Third

declarision form their ablative, indifferently, in i or in e. I believe also that tulo ensuring
is not zer surong; the Verbs ensero and exero carry with them their preposition.

My Silene Californica is not that you saw in Pratter's collection, when you were

here. It has more affinity to virginica than to sotundifolia and believe it to be the same enumerated by Sentham as S. Virginica. I think I prove clearly that it differs from all the silene, svilt which it may be compared. Its variety miniata will, no oboubt, prove to be a distinct species.

Counothius prostratus, Benth. fraticulus, myson's error! Ithought fruticulus was
the diminutive of frutex and in this serve it would be a most happy epithet for this
prung shrub. Ambellatiformibus, a shamful blander! Translation my own, bad
bad, bad! Conothera decumbers is very lows picnously emerginate-bilobed inforhaps to strong.

Now to my progray! Guid dulcius hominum generi à natura datum est quam sui quique liberi?

I have wild specimens and also your own cultivated specimens of Heliomeria multiplora, I assure you, my dear doctor that heither is my the tioneris simplex. The ray, and disk light of the former are of a uniform yellow color, in migne the ray, are deep your, almost brunge and the disk purple! The mexican name by o de gallo could not be properly applied to yours, which has no marked centre or prunella like nine.

In about len specimens of Monolopia Heermannin, then is not one with catingedical less, or trifid cardine. All the leaves are 5-plobed and the flowers larger than M. bahive folia. is the top of the liquide bidentate as those of M. Heermannie? There difference are sufficient in my view to justify the formation of a M. species. Whather a species or variety they are two different plants.

Campanula prenanthoides is partly Hilgard's description. This, The polygala and Viola lobata are the only specimens of Pratten's collection that he has seen. He was to help me in this latter work as he did in the fermer, but he felt sick and could not do it. I had much less trouble alone! It. is now in Washington with his brother, his mind is well enough for the present; but his physical health is very bad and I fear he does not live long. Astivation (if Jam sot Mistaken) Means the state of floral teger - ments before their expansion. Ion would be astouched how, in that state, our

Campanula resembles prenewther or other of the chicorese tribe: thin, clongated, Eglindrical bud, with unequal and spreading involucral tipe. I think the hame and comparison are very good. Thus not seen Hooker's name mentioned by D. C at Dodecatheon integrificient. Bot may, 3612, Iconduct percure.

Now, my dear ser, permit me again to express my warm thanks for your assistance, good advice, and the readiness with which you have always a unwered my letters and inquiries. In my letter Work, Thave laboured under great disavantages - Very few books, no latin grammar, not even a good dictionary. Except my decandoke and our american publications, I had nothing. The Academy library, to rich in other branches of Scientific work in exceedingly poor in botanical works. I had no batanist to help me even in Correcting the prooffs. Under the present circum Houces, and budas my paperis, I would be ashumed to send copies to Mefin Hooker, Bentham and Nettall They would not have for mette same indulgence you have. Iam even afraid of Deloreg and when I receive a letter from him, I will thake, I am Jure. I do not think I shall ever have another itching for writing, except in the case above city. I am going now to confine myself to conglete the horth am herbarium of the Academy of Sciences and when it is finished, they I will study it over with great Care. I have arrived at the Atter : - They will take me the whole mouth - without Opening the general herbacium and my own, I have found 95 species -I have received your pamphlet respecting the mithrousian institute, I will read it as soon as my eyes are rested a lille, they are very weakend wachinflamed. I have also received Bentham - If I have to pay, I will soit with pleasure and Ecombura your portage advances. I beg your indulgence for having to uneh imposed on your pracionstime, forgive me und believe sur ever your much obliged and devoted friend-My best respects to your lady if the recollects monetall. E. Durand

I will not non trouble you so much as I have done of late.

Prof. A. Gray, cumbridge.

Deur Sir,

Your souvening of 5th instant came to hand When our friend James was showing to me the strange met, and Ceaves Which his Meardina Correspondent had sent to him. I had, calready, seen a single heat from the sum source, which had been a jurgete to me and had induced me to large our friend to write for others and such parts of the Shrab State might be obtained green ordry.

It has no resemblance With anything I have been yet of convican dat fint light, vegeticker. Its affinition seem to be with thy pocastance or capalifered, but now that I have seen the leaves, I cannot connect it with any family except the leatter from which it still differs considerably.

Thousait belong to a foreing family or is it the head of a wew of the what the heat spring will answer us? Major become thinks it is the same nut that Bartrain found in the forests of Florida, and mentioned in his travels as having a very olean inous Kernel. I am very impatient to Know your opinion about it.

Do what you think proper of Pratter's feblox. I had occasion two or three months ago to compare it with the various forms of P. I i varieta which I had under examination and I found the characters which distinguished it at a Variety, to constant, that I was very mar coming to the land conclusion you have adopted, had

it not been for your authority. However, it has a great affinity with our P. Divaricata. I found the same phlox from Texas and Ita fe - So the warm occidentalis Will suit better than Culifornica Which maybe already taken.

Do your recollect our letter Cerastodium mimudoi des, of which W- made our Minulus exiles? I have found it among Nuttall, plants labelled Minuloides pilosa. It is the Herpestin /2: losa of Bentham (see Prodr. Herpeiter, sec. Mimulo: Der.) Ilill Think it is a new genus and would adopt thattall's name in preference. The description of Beathamie rether loos, Ithink our is much

In my great labor at the Academy, I have reached Solunaces. I am more and more pleased with my work - It will be a fine herbarium, Januar you, and worth consulting before you finish your general H.am. flora. It contains many new things and Were you to accept all the new names of Nuttalland Lecoute, you would excich your vegetable army of at least one hundred new plants. It early find the affinities and true places of Lecouter plants; but Nuttall's specimens were generally to from and incomplete that I can do nothing with them.

I send you enclosed, a gran which has been shown to me for information. It is that of which praparis now made infrance They call it there Sparte, or hair gran. I hout it be the

Spartina Cyrosuroides! Superfect as the specimenis, try to find out what it is, as it might below an object of commerce or of paper making in this country. The ruguity is does this gran grow in M. America and at What price could it be obtained by the tow? I know nothing about graves.

I com now occupied in fictoling a freach gentlowar of the hann of Carlier, Who brought you a letter of introduct - (on of a M's Trembicka, a polishlady intimate in M. Mest; family. This lady is a most intimate friend of a family in this city, which I comider as my own family.

I hope, my Jean Sir, that your trip to Europe has contributed to release you of your heavy task of tudeut and you feel refreshed and quite well.

With my best win her for all that belong to your Fremain affectionately yours E. Durand

Nov. 10th 1855.

Prof. Asa Gray, Curubridge, Mit

Dem Doctor,

Before receiving your favor of 12 thinstant, I was aware That the M. Carolina Very entraordinary fruit belonged to the Pyrulande of Mich. Humittonia of Mall. I had neverteen a specimen of withthe idea this I had a small berry, I'milar to that of thepheroia, I never thought of Eccurring to . It description. I have tence seen a specimen in Herb. Ac. 1c. Collected by M. Nestall in the high lands of A. Corolina, With a fruit about the size of a small hickory, perfectly round, The calyx enthering to every part of the endosperum, Without projecting Calgerial lobes, but not pyriform as was that lent to lames, which looked exactly like a small fig, with avery pulpy calyx.

If this thrub grows at all in the Penn. Hountains, it must be very ran. I have never found it, nor have I seen It is any Pennsylvanian herbarium, Ichwutz, Wolle, Durlington, Collins, Griffith, Le. I wonder of ME Porter

ever found it.

I send you herewith ee specimen of NasTurtium Sylvertin Collected perhaps to year ago by Mr Collins above theregoes Renjengton, on the lite now occupied by Richmond, theterminen of the coal regions R. Roads. I have seen it frequenty, paining through, and, as an old acquaintance of the protetaire family,

I paid little regard to it. I sho not not whether it might be found again in the same direction, estia whem, as all that locality is now covered with houses. With it you will find also Arabis heterophylia of Nuttall, which looks very much like a Harred A. lavigata, var. 3.

Herpestis, has induced me to lookat it again. Bentham howing placed it by it telf in section Minuloides, Jam perfectly latin field, as I ought to be on such authority. Its habit leems to different from the other temerican Herpestes, Which are all glabrous and almost all succedest and turning black by descrition, I thought it was something. Besides the divisions of the calgy are shorter, less foliaceous, oblique and not dehistent towards the maturity of the seed, at which time the tube of the calge is decidedly inflated; The shroat of the Corolla is not only pilos spotted; but it is pilose also.

Bentham's pedancalis folio brevioribus is wrong. It may be to with the lowest flowers; but not with the others which are from 1-2 inch. tong & more. The top flowers are very much like those of the At. migres-cum and It. pedancalaris on very long pedanche. Thus his expression a pedancali calga pacels longiones" is also wrong as the calgain scarcely two lines long.

I send you a specimen of a Phlox, collected by Dr Wood house in the Mexico, not Yesas (I made a suistable) Which I courider as another form of occidentalis. The leaves are harrower, more glabrous with a manginal borden terminating in a Kind of mucro. and silvery as the other, Here and calgues viscous and hairy. It might be made var neo-mexicana, verying towards P. Subulata.

Recollect, my dear sir, That my observations are very desultory

When I find a strange form or affected a to lay it is a typerate with the view months when my form of paper with its affinity (To look at it Seriously when suggestion is at an end.

Your Himaluyan plants Will be Welcome.

Relieve we Very sincerely yours, with my respectful salutations to your lady.

E. Durand

I now go see Ruchel and spend a happy evening.

Dear Dr Gray.

I have misted your last letter and have notions how to seek for it. The operated has a very great affinity with P. Silverica — and all the difference seems to me to reside in the narrowlance of all the latter and the more oval loaves of the former. If the specimen I sent your low. Mexico) has the long leaves of Theop Liberica is has also the silvery surface of P. Occidentalis, which the liberica does not seem to have and were it not for your opinion and authority, I would still look seponit as a ver of occidentalis, with humos leaves. Where is the other difference?

I have been working hard at the Erigona for thru

or four days. The Acad herbarium has about lixty species and I move

could succeed in following the arrangement of Bentham (Som Lhim. Soc.

because I had no eyes for it. The genitalia pidosa Hylabra, I

could not discern at all. and as I wanted to put a certain

order in their arrangement, founded on more striking characy
after many overturning, I adopted the within order, which I

subscrit to you. Her a few days vest, I might perhaps find in

it many faults induced by different stages of florescences, but for the

present I have enough.

I have beautiful specimen of Erigonem Jamein, from Rio bento N. Mexico. The flower are of the most brillant yellow, with reddickinvolum; all my other specimen are of a dull color, somewer appearing reddich as Fendler 102 766. — Is not Fendler 102 770 with its oval leaves another form of Sumein I have very little doubt that Muttall's vorticillatum is the same. his specimen is very young and the only thing you tee of the flowere

is that the involueres are Solitaria. The leaves are vera clougated as ar those of wight no big: Itakes not 620, 621, 622 of the Wright to be E. Sphoerocarpum

of Dough, is it to? I do not recollect that I have ung thing particular to day about your last favor, except that I feel exceedingly grateful to you for your attention and the trouble toive your Believen Dear Doctor, your

devoted friend. La Durand

I regret that you have not the peace of Moest intien, I have plenty: and I will not diremble my montife cution at receiving your port manks in I would not have done it, had theen in your place. It later good you! Forgio my hurriano

Genns Eriogonum.

C Involucia multiflora.

. Interescentia Capitulata. V. Breviter -umbellata.

Suffrutices.

Eriogonum ucante, Nutt.

andinum, Nutt.

Coespitorum, Nutt.

Ovalifolism. Nutt

Just ween, Nutt.

(Nutteellie, Jameb. Polyupy, Nar

Clougation, Nuts. latifolium, Jims.

fasciculation, But.

201 marinis folium, Nate.

" Var foliolosum, Now

augusti folium, Neut.

geniculation, Nutt.

parvifolium, Beut.

mespecephatium, Nau Inflorescentia umbellata

- Herboen

Wittmonovallear (flavum, Nest

aurenn, Nutt.

Crusifolium, Beutte.

heraeloides, Nuti:

Probably umbellatum. Umbellen developed feares inocoval xobtuse.

E - - - Lomportem, Dough, gyrophyllum, Nutt. Ellipticum, Nutt. Pratterionum, Dur.

Inflorescentia 2.3 Chotoma

C. Sirvoluci is solitariis

E. - - longifolium, Nutt. tomentoum, Mich. Verticillation, Vut. Jamesio, Beut

bey, Ch. wight & 766, Tendler

770 Feudler.

· Sphaesearpeen! Dough.

Johannacesides, Ton.

alatim, Torr.

C. Involució aggregation

E. - - - Clatiem, Dough.

Midum, Dough. uniculatum, Neuth

(dichotomum, Dough. ? - (album, Nutt

a Involucra pauciflora, solitaria inflorescentia corgunbora, V. umbellate

perhapsturament helianthemic folium Wage

C Herboe E -- - - brevicachi, Nutt. microuthum, Nutt. Campanulatum Natt. effusion, Nett. Inflorescentia 2.3-chotoma. - Colichotomum Nutt album, Nutt. Cumucun, Nutt. multiflorum Healt. Cornecus, Nutt. effusion, Torr. Inflorescentia secus temos disposita. Véininen un Dough, nivecus, Dough. Mictim? Beut: Yoren, D. A Hily. outhoclason, Torr Encemorum, Nutt. plumatella, D. XHily Heermannin, D. Hily. Stipulata conquelorumy Menth.

E. inflation love, bught to formatect.
by itself her no good specimens
it look like a granen.

· Prof. Ala Gray, cumbridge.

Carinina Doctor,

I say: That heither in herb of Acad. H. Se. Mor in mine, which is still richer in huttallian specimens, his Assepias or Agorates languagenosa, is to be found. From his note in Genera luner, I her head but one specimen, Very imperfect says he, and I will very problematical as many Muttall's specimens are, I am sory to very

At Mi Nuttall represents his A. Langinora with terminal much and only partly langinous, it can be no other but a form of Agerate decumbers, with occasional slight, lunginous leaves; or, as he says the leaves are ovate, it might also be a forme of virilifora with a lingle terminal combet, as I have some specimens from Nicollet's h.w. Engledition. I have specimens of A. virilifora with slighty langinous leaves.

My plantoe Kimeanoe are nearly finished printing.

I think I shall be able to send you copies towards the end
of next week. I have talken such trouble this time and
one, I hope, justice to my subject.

The enumeration of De Kane's plants Will asto nish you when you lee the Essett. (provided is does not artonish your Mooneyamous by its worklenness!) It has raised the number of dissly some plants indigenous to Greenland from 80 to 146 and news oloubled the list of Richardson third or polar zone. What is Still more remember of freeze part of greenland from 72° to 80° has given more dicotyled onous plants than the Southern part, in about the same member of lunding places. In a Shall not lay may move how, you will soon be able to judge for yourself and given me the lash, if I remended it, with your habitual frankless, which I like above everything.

Meliev-un Very lordially yours & Durand. Much obliged to you, Dear It gray, for your brouble, although regretting that you have not been able to do more; But I Know, my dear Sir, I on prened you are by your labors and I can hardly concine I work you can be trials.

I had passed so rapidely over the plants I sent you Ilian 120 not 180 not 180 not sounder at my namerous mislades. However many of them remained exceedingly cloubsful to me and it was not long befored I recollected. Merlin, that maritima and found out, my sedum thodical and samestus, belonged to it. The same for my thiogener bripidula, which this northern through minics so well. Then very strong and beautifully figuretical veins, opened my eyes to it, but I was very strong and beautifully figuretical veins, opened my eyes to it, but I was very sunch astonished to find a labiate plant to for horse. My cheiranthan Pallania? answers certainly to the description of your hat flower, characteris or not. It is the only specimen in the collection? The Itellaria Purshii that placed with I longipes, van lowardrie, cellhoughest answerd the testing of the first just as well. I did so only because in the enumerations of arctic places, no such precion as Purshii was testiced. All the cerustic of the Collection, I had also placed in the same section as C. alginum, as varieties of the latter.

Since I wrote to you, I have had occasion to consult Brown, I tooken & Richardson's encumerations of arctic plants, which have been of great use to me, but I have not as yet Seen Hooker's fl. Sept. amerwhich I have no doubt, as you say, will be very serviceable to me.

Mow, dear sir, I will not retain you any longer. The Small beauth offerent farcide De Kane broughtown and many of them are anique. Therefore I will be obliged to you to return them, with additional notes if you can. But tell me those you should with more particularly as it is the desire of De Kane, you should be furnished withater.

Generally the Specimens are very Spare. You Know the difficulty DEK. had to save the few he brought with him.

Before returning them, oflige the again to give a glance to the crucifero. I believe the Drabe who is there under all it forms, framing the cloudtful species entracted from it, such as hirta, pancifora, suicropetel &. What is the species I seamed muricula? Ing drucke alpina, var havina, in a very doubtful Draba. Look at the very divarical branches of the Itiquia! The Saxifuga, I am now pretty certain of. Except 2 unique species you have in your briefle a very low one with a single! flower rather large, which wight be a stellaria - and the small yellow one at our which I remark that I septitude to obled like a miniature primale of ficinalis. Of the two pedicularis I think now that the lowest is the hispita Hook, the other arctica.

The leaves I sent you with the valerian, were in the same sheet of frager. They were generally detached from the plant; but I thing some were and they were radical. They are at the Academy in my very cold room. When the weather permits, I will go there and ascertain.

Very gratefully yours

E. Durand

My respects and compliments of the Jeason to your Lady.

Prof. Asa gray, cambridge.

Dear Doctor gray.

Refore receiving your answer, I send you What I have done to repairing. Culpable negligence. For see I have Well employ and my time and have been able to find books, when I have learnt their names. On the many rester, lists and bemark, I have made, I have worked the whole day in reforming my printed memoir - quantum Mutation!!! - Still I leep my position and preten Lion about making Kanes collections Valuable, and interesting. Heur to examine and correct This new Scribling and tell The Wilt your Bus Breton frankness (that I am) Whether it will do . Do not Expect from a poor brained fellow like me the acutency and profound reasoning of a De Candolle, a Richardson and antoa Gray - If it is passable, it is all I want. Grace à Gieur! sofarthere is no gleat harmodone.

A few copies sent to different states, none abroad.

De Kame has not cited inhis book any part of the

mistaken views of his botanist, and I stropt a sect its

Prof. dilliman informing him of my errors and begging

not to be noticed for the present in his journal

A / housand partous for the great trouble I give you, but you trave Thowed to much sympathy, 'Le much charity and interest to my poor selfy thus Is hall never forget the obligations Town you. I shall leave the first page as it is and expunge all the Est from the 1st paragraph of page 180 ._ for what I now send you - I will retain the paragrape (This unexpected resent &C. Aut not his lette Companion a Thenwill the popular" Le My tuble I transform to a simple enumeration of the plants of Rane, with 2 columns, one for the plants of the Touthern section of Greenland, the other for the northern -Adientadien i mydear Doctor Gray- Lemember me very infectfully to your lady and believe the -Very Sincerely your much Obliged friend-

E. Durand

Prof. Asa Gray, cambridge.

My dear Sir,

I sent you yesterday, by mail, a copy of my enumeration of D' Kane's Greenland plants. I have bestowed on it all whether eare, attention and sorupulous study in my power, and I would regret altogether exceedingly that it would prove, convorting of your approbation. You will not beless surprized that I was myself at the result obtained, and to be the calculations of Mef. Richardson, De Candole j' of others so far overpast. Let me know frankly, at all essent, what you think of my plantae Kaneance, as There is no living Botanist for whom opinion I have more deference and respect than I have for your. This is no flattery, but my candid opinion!

Para expecting with eagerness the appearance of the hen edition of your manual, to see the alterations you may have intro
Juced. In arranging the Spheidid herbarium Horeali-americanum

of the Academy, I feel more and more the absolute necessity of a

new and complete edition of your flora of 11. Am. it is so unhandy

to have to resort to the numerous publications that have been made

since! I would not have you to recommence this work, without

consulting our great depository of Nuttall, Le Conte, Baldwin, Read

and other who have contibuted their mite to the completion

of this immense herburiam, to which I have transpersed all my specimen, from Nutsall, Spalding, Nicollet, Lindheimer, Frudter, Wight, Hale &c. Tou will certainly have occasion to expunge, remite and establish new species. I intend, next winter, to examine it carefully and propare notes, which I hope, will be of some use to you afterwards.

I am becoming very pround indeed of the great labor I have undertaken. It might have required a more uble hand and head, but none could have bestowed on it more patience, more time normore geal that I have. Otherwise all then depater Collections, some of them I rowned in the vast abys of the general herburium, or laying fiele miele on the thelves of the botamical room, would have remained neglected, forgotten, Spoiled, lott to tiener.

In expectation of a few words from you, I remain, my deur sir, your most devoted friend E. Duround

· Prof. Asa Gray, Cambridge.

I cannot express to you, my I can feined, how grateful I feel for your last thind letter, and your sympathy in the couldward prosition in which I have placed myself and perhaps In Kame, if, in his narrative he has made allusion to my memoir. Help me out of this trouble I beseech you, with advices and some rester to fell up the chain with the complete disparition of my table will leave.

It is less the want of booths that the want of experience, or as you say the want of Knowing were to look, that has placed me in this dilecuma. I have, this morning, at your suggestion, consulted the article Greenland in the Edinburg Cyclopedia The name of Gireckini not given) I have perused E. Meyer and as make work entitled a Outline, of the geographical distribution of british plants by H.C. watson, and I have found as many mone species toadd as I had a leading included in my Hora Groenlandica. I have found also the very first member of my enumeration under the head of Rannealus hederaceo proseines and Rhederaceus, L. and Jeveral others. I have the confidence, however, that my pedicularing Kanei is good.

It remains now too few addition to make to need a new tuble in lieu of the defection one. I shall strill it altogether and

Expose the difference existing between Sir Richardrows third or prober

Jone and the collections mad - by De Kam from the 3º upward.

In the columb of Sir Richardrow's lables, head "North freehand

plants from 73º The english botanist rellows 40 odicolyled onous

and g dicolyled ono as plants: De Kam brough from that same

hypertoream region 55 dicolyled ono as and 12 monocolyled onous

species, exclusive of varieties - That is 3/8th more than sir Rich.

and much have than was expected by the De himself and Alph.

Decandol. As to those plants which have been found for the

first time in their high latitudes, I will leave the quotation

as really, if found before in Greenland it was intersouthern

part:

Suthin respect, it seems to me that I shall have no need of thoughing before paragraph 2° of page 181 - But how shall I fill the charme - the four pages that will remain blank. This is the embarraming question and my mind is so overset that I have not seen get any clow to it - Sampurfactly inert, astounded, unable to find my way in the dark. Obligation, my dear De Gray to come to my unitance with suggestions and twen something from your free, as I loan, as a gift, in your own in the shape of correspondence.

not seeing in your am. flow any Potentitle frigida, except grevilles, which is given as a synonym of P. nivea, B. and having numerous Well marked specimens of this variety - I was satisfied that the specimen you had marked frequed a war not it; but answered the description of Var- y, the himsela of Vahl, and I placed it there with my own description to give others the chause of correcting my if mistatlew - Indeed, my dear sie, herein an instance in which I cannot but consider each of these varieties as as many distinct plants, Whether called spaces or varieties. They can never be mistaken for each other, they can never reproduce each other; their anormal forms willness mingle with or pan into each other. Induction can I Bouldrather call Them Spacies than Variation although their petals are obcordate. My Jear Du Grey, your tait paragraph overwelmed me with grief and uneusiness about your health ... To say if I live!

My dear D' Grey, your tast paragraph overwalund her with grief and uneasiness about your health. To say if I live!

You really work to hard, you expensions efto bestopped that
by fatigue in your glorious carrier. Have alway, in sight the italian
frovers again va piano varano, or Take your time and you will
do more in the do your to come than you could do infive your
hard tabor. You are too useful to your family, to your friends
and to the world at large to be permitted their to break doing,
untimely, under too heavy load.

Thope, my dearling I will not fright en you by my advice

But really you have spoken in words, if I live! that seem to forbode that you feel you are working too much and your health suffers by it. Recollect that the world is industrictly on and your over him no thing more and your friend and admires would not have anything from were it at the expense of your health.

Jonarduch a good hand at lorrecting that at a glance you may see the faulty - I Know two already, one of which will disappear With the lather trice plantage macroe for plumbaginaces, and Melanthiceae for Melanthaceae - a pay - of erret a pland at the headop the envineration, at you have down in your h. he flora would fill aptato payer - if hunfortavately; but by chance therewere every h.

Excusery harry and think how and wely I that want for your answer. Should it fell one suiday, no paray of the bible, I believe, borbit to give accidence. When so much needed.

Farewall, my deur sie, belier-tue sieuren and syretefielly your most obliged frient E. Burand

A general copy of way enumeration to perfor

Prof. Asa Gray, Cambridge.

My deur sis,

· Having been appointed by The Phisosophical lociety to delider un obituery notice of the late Francois Andre Michauf; notice Which, according to the laws of the lociety, is Limited to a cettain humber of pages, I found materials enough to write a further full historical notice of him, if I can procuminformations on his last years. I understand you have teen him frequents; in Paris and are perhaps acquainted with his family relation; If so, can you till me anything about his widow and whether he has any children. I sawhim in Paristin 1824025, 14-They, had room on a small market place, somewhat about the butte 1th Genevière (huma forgotten) & breakfasted levene times with him, but I never saw any family about him, but and I ewant. He spoke about, and invited me to his Country last heur Poutoine Sut it was in the winter und I had no offortunity to go there - I only went with him, on an acopul rainy day, in his little cubriolet, to see somewhere 1 the often 1:3- of t-cloud, a nursery planted with oalls, hickory Clus &c. The Jeeds of Which had Just himinabundance

five years previous. As I had very little curiosity about such matter, at the time, mad no inquiries about his position. I think he had a situation in the administration forestiere, but now in The Garden of Plants; He lived modestly and far from efflume us it appeared to me. However Michany's habits were altigethed this way, and he might have been well of, and Itill live in this Thyto of moderty and simplicity. What Kind of a country place was his Montreal property near poutoise, was to a Mainend plaisance, or went a nursery of trees which he cultivated as a renourer? Any thing you can tell me with regard to humself and This matters will be thankfully received - Your memory is to good and your pen to fast, that in a quarter of an hour, youlun give me much information. It you have nous otherwise, you could take me to whom I could when myselfin Pais. I have heard frequently of a be the Vilenoin as very intimate With him - what is her address? Touk know he has left a Will in favor of the Phil. Society, with the View to promote teiences; but the Will has not been opened as get, for want of Knowledge in the french law, and we do not Know what it contains -The donation is not, however, to take place but after the death of his wife.

Jam a great bore with you, my Jear Doctor, but goallike forgive my importantly and continue, I hope, to believe me I'menty your most devoted dervour of friend "ED wrand"

This. Oct. 4 1 1856.

My respects to De Engelmen, I come leady for him to show him all we have here.

J'orgin my importantly, I beseel you, Dear Doctor, and do this again for me, in spite of all your memerous occupations. Thursh to Michael's last letters, which I have found in the archiver of the Philosophical Society, I have been able, I believe, fully if not rightly to wind up my tastl, Wilhout waiting for the answer of Made Vilmoria, to whom I have actually written for further information.

Will gow oblig - me, my Jear Siv, to person this voribilities, and title him from Cly (and I Know you will) Whather it is in a fit to Ditom to read before the Philosophical Society. Will you also correct, emend and amend, if I am to be redress, or if anything more to say them I have said? Will you, in particular, play sown attention to the character playsical and mental which I give to Walthaux? When I think of him and see him in my mind, his image soon vanisher, and who site before me invariably? Lesucus, and who site before me invariably? Lesucus, and he was the latter of cart resemblance of treasures.

Anything you may suggest, please write it on a soy water piece of paper, with proper indications marks, and return the thest

manuscript to me in time to have it for friday 7 to november meeting day of the society, it is deriver reading?

Thave communicated it to Mr Trego, our secretary,

Who has been good enough to corner my genine broken

enylish.

I hav- not seen get De laylemenn. I surpert you have Kept him to long in Cambridge that he has had no time to spare, as.

Very respectfully yours E. Durand

This. Oct. 31 1856)

I have communicated my payor to the?

I Lea who has I known personally me Michany
in 1832 x 52. He has not been M. with a gears
ey -; but one ey blind - I am howevery putty article
than I law him as I day:

We has witends furnishing un Wite sand up we with Fallow and his great annien Enthonion who Accordence and and his great annien Enthonion of Accordence and according people & western

Prof. Asa Gray, Cambridge

My dear sir, Ithunk you for the trouble you took in reading the notice on Michany; but your marginal remark " I doubt the Eye glass" is still perplex - ing me. When I saw M. in 1824, I perceived something prenties in his gaze, which struck me forcibly, but to which I soon became accust . omed. He had certainly two eyes in his head, either true or fulse. Had I not heard since that he was blind with one eye and Wore aglan eye (Lecoute, xe) I would never have suspected it. Lecoute Saw him when he came last to the country and also in 1830 and Juys he had a glan eye. Wi Lea Jawhin both in 1842 × 54 and lage he was minus his laft eyes. That Occasion, this morning to See un admirable litteren of Michany, Such as I saw him, painted in Paris by Rumbrant Peales in 1810 ov 12 - with both eyes! I went immediately to Vee Teale for information and he telly me that he painted Micheny such as he set before him, with both eyes toud I'd not perceive my thing particular about his eyes. Now my dear sie, I would not say unything in my notice that night be contradicted - so oblige me to enlighten

me on this subject as you have had many becarious to

It is now contemptated in Philadelphia to republish a new edition of Micheny and Nattall Sylva, With a fine lithograph of Micheny for Ramb. Pealing portrait. My notice on Michany hus been willed from her as an addition. I have suggested notes to give at the bottom of the page the squengues and adopted names, to which Michany, unfortunately, has too frequently deviated. any suggestions from you will be thankfully seceived.

See him in your visite to Paris. Was he really, blind with the entire loss of one eye and that eye Closed. Or was his left eye Simply deprived of sight and still remaining in his or 6? you! Michany might have worm a glan eye When younger and given it up in old age, when he lost all pretentions to person -al appearance. I have thrown a lady similarly afflicted, Whose confidential agent I was having Known her in her yout in the State of blindues) and for Whom I imported from Paris her felic eyes. The wore a false ey- for nearly 40 years and how The has given it up. The glass eye is a very troublesome appearate, its application is most always cettended with more or less irritation lend rometimes, with lower derable pain. I have seen her in Jacha State of Suffering and despondency that she entertained thoughts of Swieide. She would have given her whole fortune nevert have resorted to the fall eye, but had not coverage enough to brave the sneed of her acquaintances by exhibiting here infirmity. However, having become old and Winstled, Ihm has at last ab and onaid it and very happy is the now.

This might have been the come with Michany.

Degging anew your indulgence, I remain your devoted friend [Durocud

J'rom the fact that convenoric and conspecific vegetables are found in Sections of the globe widely remote from each other, it is not, absolutely to be inferred that there has been an interchange of species between these two sections. Migration of plants from one locality to another has, Ithink, been much exagerated:

When it occurs, it is mainly, if not alloyether, by the three following processes:

1st by the dispersion of seeds through the agency of winds or currents of water, 2st, by the migration of animals, birds especially, through their excrements;

2st, by the social intercourse of the people of different countries. Dentity of soil, of local exponer, of climate are, however, orbsolute conditions of permanent naturalization.

When Countries, as lapan and the Eastern States of Morth America, happen to possess a very etation admost identical in congeneric and specific
individuals, notwith standing an interruption of half the circumference
of the globe, it seems more warrantable, and not less scientific, to suppose
that the Creator has implanted, simultaneously, in these antiproduce
regions, the germs of plants requiring the same conditions of vitality
and reproduction,—that to ascribe this identity of vegetation to any
interchange between sections so widely dissevered. It is not likely that
Inigration of seeds could have laken place or a distance of so many thousand
miles by any of the processes above mentioned, without leaving somewhan
under the same parallel a link of loutinuation more or less tracable.

If the chain were broken only over the two thousand miles of arid

lands Which constitute the great Mongolian Desert, to leapyear again in Afghanistan, Persia and Asia Minor, nearly under the same perallel, with fertile soil and nearly asimilar climate, the migration hypothesis might, perhaps, be admitted; but the great leap from one hemisphere to the other, not only over a whole continent, but over the Mediterranean and the Atlantic leas, without leaving, in the intervening fertile spots, any trace of its passage, cannot, in my opinion, be seriously entertained; Especially, when half the distance over an uninterrupted ocean, Separating Eastern Asia from Western America, hus not afforded such a stribling resemblance in the vegetation of these two sections as in the former ones.

For the Jame reasons, if the Arctic flora is identical, in many respects with that of the Alpine regions and, moreover, with that of The high lands of Jerra Del Juego, the rearest productive lands to the Southern Bole, it is owing most probably to me, to a multiplicity of Original types, than to any interchange with each other, through the lapse of ages. It has not been more difficult to the At Powerful to create one original local type than to create thousands. The word of the Genesis "Germines terra herbam vive entern est facientem somen" is no more applicable to the hypothesis of a single local origin than to be apposition of double or multiple original types.

The homogeneous new of the Arctic and Substantic floras, at the present time, has nothing to Do) with the present question; the two floras being

being almost every where continuous and the species only disappearing,

Jwill repeat again: Ital, in my Opinion, the Supposed Migration Of plants has been somewhat escaperated. Sam strongly inclined to believe That from the time the earth became habitable, the geographical distribu-- tion of plants Inch as We have it now, has been very hearly the Jame: Tome species may have disappeared, or been compaid to nurrower limit; Others, may have made their appearance Spontaneously, by some of the processes of migration above mentioned, or otherwise, but upon the Whole, the general local vegetation cannot have been materially modified. Had then been but one local original type, destined to spread ittelf over tructs fitted for its peculiar vegetative endowments, its migration would, nuturally, have begun on the neurest land; and when we have under our owneyer such dissimilarity as that which excists between the florar of Oregon and California, and That of our lustern States, With a continuity of lands between the two regions, We may Well doubt that the remarkable identity of the Sapanese and East American floras be owing to an interchange.

Besides, the plants that Seem to be best calculated for migration, are, it Seems to me, those that migrate the least. Most of the Composition, for itestance, that are provided with plumose seeds and which we see, obusing a Summer Dag, flying in all directions before the winds, Will Seldom vegetate out of their local limits. It is remarkable how

little interchange has taken place in that family between the Attantic and Pacific regions, or even between Europe and America, comparatively to other families, and to the great unaber of species which the order composition contains.

Tussilago farfara & belongrather to the labarctic regions that to Europa. Solidago virgo-aureus belongrather to the labarctic regions that to Europa. Inula helenium con scarcely be laid to be haturalized

Hanthium, maruta, Achillea, leneanthennum, Tunacetung artemisia, grow almost on every -5/sot inhabited by wear.

Senceio Valgaris, enicus und landum, cure not naturalizad, although occasionally found.
Whilst the Origeron land cure is frequently found in lurope on the lea wests, seneio valgaris,
the plague of the European gardens is as get a Earty in their Country.

Lappea, cichorium, leoutodou, sou chus, only near the abod of man, gardens de.

Taraxacum & circiam lanceolatum quite 10.

Scarcely never than 20 species of compositor are found in the Eastern state, one half of which is Deprived of prappear. Where are the Western Universal Coryenliferon that grow spoutoneously in Eastern Universal?

Michaux's Truct.

April 19 to 1995 - After herborizing on the ligh wet of the Caroliness, Hacked for the western territories.

Croud hanging rock creek and stept on the banks of Came creek.

26th Hasted from came creek, pensed Launders food on the Calaurha river. 27, Hopped at Col. Hill's brown work, 32 with from Came creek.

28th, pand Ameritany food on the southern branch of the Calaurba. 29, through Lincoln. 30th arrived at Mongantown. Hasted 2° of many. 32 virted and yellow Mounts Liawills and another very high hill. 6th Slav. Roun procurtains.

10th came back to 112 Davenport's farm, virted the hill opposite, Broundback and the Clan Eign. 13 Visited again yellow Mountain. 14th Croud Doc 2iver 27 times; 15th pand through Sohier Corrough - remained several days. 215 pand Ball's gaps; 23 Mossy creek; 24th Machy's ferry.

25 arrived at Knoxville, unidence of the Jovennov of the western territories; Where I remained to the fourth of Jan.

June 5th Slept at West-point on Clinch river. 6th, crossed clinch river,

7th on the Camberland sult. 8 & 9th crossed the cuts 27 suiter.

10th arrived on the Cumberland river and went on 20 witer above. 11th,

arrived at Bloodsoe liet or Station. travelled in all 120 witer through

the Wildelman. 16th arrived at Nashwille, 197 witer from Knoxvile.

212- Jum, Harted from Nachville; pand Maurkoe's lice; 23, croud Barren oak. 24th croud hig barren river; 15th, Little barren river and the green river. 26th pand by Roland's fork, head of sale river. 27th arrived at Danville, 117 from Nachville.

July 16th Start from Dawille. 17 to found through Beautitown 18th arrived at Man's lick; 20th at Louisville. 24 returned to Man's like and hence back to Louisville, where I remained to the good tagaet.

Augt 10th arrived at Port Vincenne on the wabork; 232 Started

for the Illiusis.

August 300, arrived at the villag - of Karkarkin.

Tetterned to Karkarkie, when I remained for some time.

Oct. 2° Started from K. on foot towards the confluence of the Missing: 13 to Started Missing: 13 to Started from fort Manae on the Cherokes territory, 6 with from two two of Tenence river. 16th encamped at the month of the Shanow or cumberland river. 20th returned to fort Manae.

Nov. 6 Started for the Illicois. 10th arrived at the quairies

Sec. 14 Harted back for Cumberland; arrived at tape finance 15th. 16th at the confluence of the obio. 18th at the confluence of the obio. 18th at the level of the Tenenci; 20th at the Cumberland river. 23-farred ble der Saules. Aflar a long and ferillion voyage, in the most inclusived Weather and in a turall boot, arrived at Clarksville on the 10th of January. Heated from C. on the 16th and arrived at Nachville on the 19th.

24 arrived a Big Barrow ferry - 26 Hart of for freenzion.
28 arrived at the pleasation of Me Madison - 29 arrived at freenziver

30 croud the river, and quiles above Dason creek. - 31 fassed Higgins,

nill on Nolin river, croud at Rolling food and arrived at Breekford.

Tebr. 4th pand through shappand's town and arrived at Louisvike

Tebr 7. Haited from Louisville to return to Nachville when Parrived on the 15th.

Tels. 25 Starte for the Carolinas.

Murch 1 = arrive at fort Blownt on Cumberland rivat.

On the 4th. Arrived bt, at West-point on river Clind;

March 15th Harted from Know ville; 16th, arrived at from works; 17 at Bull's gap; 18 crond Lick creek and Hopped at Green court house. 19th arrived at Johnsborough; 22° cond the crose wet; 23° arrived at came Creek; 24th vitted the light wets appoints Davenport's farm. 29th Left Mr. Davenport and arrived at Morgantown on the 31th

April 1 thated from Morgantown, 2 arrived at Lincoln 3 h at Bennet Savita's, 12 wiles from Lincoln; 4th paned "
Tuella segen ford on liver Catanola. 5th Slept at Wax saw

creek in South Carolina. 6th pan I have in look and arrived

yth, at Canden. 8th found through Hate Borough and Slept

at Manchester 9th. 10th crowd Manigault's ferry on the

Sauter liver and arrived at Charleston on the 11th of April.

Sailled from Chadeton, on the 13 August 1796, on board Ship Ophir bound for Austerdam.

Experienced a Prendful hungan, on the 9x10 = of october, on the coast of Holland, was wreeked near the Villay of Egacout When he lost fact of his collection and remained, Sick out drying what he had tood, until the 25 of hovender; fast of through Australian La Hair, Best, Brunelles and arrived at Pain on the 232 of December.

Det gray My I can sir, I have down my task quite at ease. Thope my note will be sufficiently full for your purper -. Tow way find in the Distroumain encyclopisique It tanique an interesting notice of eleichang under the head Voyageurs, vol. 8 th page 737. I have been to buy that I have not been able to look upon wany backles of Rafivergue's horbaiam, I send you the plants there laid asid for you, by a friend whom I instruct to wards on the letter his address that you way said for the buille. Rey the days cate that way intrict you and retain an the remainder when you has - finished with them. You arang think that I feel awi us to Know what I very and to any Collection and see authentic speciacus, labbleted by our great Quarters. Phase to remainly un to De Torry and balive her both, your devoted howard and friend E. Durent 1 J.D. Jelannay Na 7 Beard St. ME Schweinity caked at my How at about the time your were starting for N. Y. Herein I the 3. " you had left for him. - I think ellicleany was not the ignorant ween when he was requested to go. . His notes are written in a hierry and in the old Hyle; but they are well written and Certainly he was a man of acute observation, and a cust cutupidid pursues of Sciences. in great hurry. to his case at his boarding home to bubjut to your order.

Prof. A. Gray.

My dear sir,

Your favor dated 15th has reached me only this morning.

I was beginning to fear less that been importinent in expres
Sing my opinion about games siphonychia. I am rejoiced

to see, on the contrary, that my letter has called your attention

to these parts. In order further to assist you as well as I would, there

examined attentionly, this morning, all the specimens in the general

and N. american herbaria of the Academy, and send you herewith

humarous bits of the different specimens I bound there.

row early repareted from the Confered state in which they were mixed up in our herbaria.

11-1. Your Siphonychia is easily distinguished by it white feetals, with incurved divisions which give the corolla and truncated leppearance.

Me 2 siphonizetia glomerata of Nutrall (not faitigiate and how marked on the puckage) is their no doubt the Par. Rugelie of Shutet. The flowers we comparatively large manerously glomerate at the top of the cymes, the divisions

acuminate fout not mucronete, a tem sighoungehia.

1123. Anychia Baldwinie has ascillary and terminal flowers, the latter few glomerate; I medler than in the firece stry and with mucroundate divisions.

Here are three distinct plants, belonging now to sdifferent genera, with habits to librilar in every respect, that I really think they cannot be separated. I kun, how, distinguish them at first tight with the greatest facility.

The only spaces of Peronychica that I have not seen inthe Sericliflore of Nett. Which I suspect very much to be a form of Samein, if you have a bit to send me, I will a much obliged to you

If I can be of any use togow, I'll be very happy . You might send an your gener Pervuyahir by our friend I came, I will so my best - But microscopic observations are out of the ability of my poor eyes.

Thank you for your lind letter and believe un

Very warmly yours

E. Durand

high ever and very Thork-brunching, peone Buldwin and other longer, apparently South on my mind about no 11 being the true Buldwine. no 13 in what I how tend you again, is what you consider a frew form. As for me, There no more and my memory is very poor, I am at a low to their which of Ho! 11 813, Which I now legard as a new form, and perhaps alsew-species. I have a stout specimen bruches Itraight, but very Hunder, almost thread like, with thout branches and long internod in with like ? dono heimon which it remember perfectly int fout light; but notonger, When you look at the Tepals Which in one are dilated at top and awned, and we acute and without own. In my two specimens of hew form one is short in samuely The other are long. The same might take please in the the 21/1 was Petacea and hindresimere, and I non the more inclined to believe them as belonging to the lane Islant : The other characters of minetaly publicent and thater away are of no great Weight. (which of 40211 &13 is Tiphongehia americana of I challeworth! How, my dear De gray, as I have taken no copy of my last letter and notes to you,

Everyours, Impocarda, and smuch obliged for your condescention to listen to a poor botamist like me, with eyes unable town the glass.

E. Durand

This. 28thy 58.

La, thatt. (a goe) name, but yours should prevail, under, you call it Parony chie sighteen the houghline, which howevery should be better copy too to Phuyelic, which forms Ac. 1c. is tabelled by Mottall Pylomerata, although name of sighonychia ansoiona, Historianeas lecontes Other Specimens musted & - 13. It was in collins herb. received by the generally, Decident flowers, leaving bohice the Sea - wine bracklet, in the form of or Calyy. Sometimes, on a whole plant, you can search find a single utile halight branches and a true truychia. Hernicaia americana. 2d. farongchia fastigiata. 3d. 14 Umeriana, J. H. G. The brue Herriania somericana of Nestable Percesta than Rugelei, but Jame form. Charter I madler and lessy After receiving your last favor of 25th instant, I brought together all the furthern of Jaronychia, Dr. Which were in the Three herbaira I have at my viposal, and found that, with your I. Sesselfora, I had all the north com, species that have been trotied + two new from Dr. Bald win, I Mary, and tabelled by rapingar-Any chica flow dana, Almall Tree, of the Jasu in heals 6 dichotoma, Natt. (The Paronychia, Hebertan Colonist alt dichotomous) Personychia Rugeling Shortts muster by Mutt. 15 Variety of 2 Setaceon, J. H. G. (Searcely distinguis hable from the following)
3 Lindheimer Loff. Engl. (in my hold. 1000 truly this. Sut Weightis precimen
11.26. Was setacea. The most this ling character in P. Lindh Variety of the ubove or a new species. Isubmit to you now mised in my harb. with Tiphony chia. Howen madler This is what I now country as an underseis 63, 14 hether a 11 Boldwine, J. M. (50 laboted by you in herb, 72.56., 1 where it was univerthe 5 Jamesic, J. Mgr. (marked P. lavieina, Wet. Mitof Columbia River) there sof totacca, might prove, however, adiff foun only. is the prodigious longth of the Internodes, more than south Var. 100iceas. Pleucea, Nut, Arlandas, of Woods How you forms, one of which might prove att. Thecies. I encounciate I them as follows: 4 Jestil flora, Natt. (bad rance, as several others are 30) Heminia comericano, Collins long tubularar, pointes, corota. Town De gray, Var, Capillacea, Tour. fent as new. linear. 9 Eamoristina, Nutt. 8 premanoider, Natt. orgy to coma, Nutt. 1. Paronychia w. Sinsym > 2 Paronychia, 2 C. Siphonychia. 2

have occupied all my time during last wroter. I have had the dutifaction to excertain that I had made but few smitterles in my arrangement. Butine Nutall, who, I wen long to bearing is in a dying condition, was like suggest has been well employed and he returned drowne with between 150 x 200 glosses which were doubtful or unknown to him, murely huttall's But poor a very bad grammintogic. Great trusy trintalles and not raisely the turney land under 2, 3 & Sometimes & different have, There speciming with help Thurber Very much in the encueration of the grammen of the far west. Me Thurber has yout four days Wilk ma, looking at our quariers while

Again yours E. &

of Fraguein willia in flower and in fruit. I seepen my package to add printing to be integerous. But it is rather a nuturalized foreigner as myself. It was Tracionary, AV-Read told her before his death that this plant was very common in the vicinity of savannale; that it grow there in the very street misseemed I sout you some twenty years ky. from that sae a faind, resident of Savannas, that I received the specimen There found the morning in James Head herbarium aplantful harows Prof. A. Gray, Cambridge.

Dear D' Gray,

America, something is wanted to assist the botanical World with a general flore of North and species that have, then fax, been dicovered on this vast continent, the descriptions of Which are now scattered in Sectional flores and namerous publications of difficult access, under particularly, pointed out in a proper guide.

The new of such guide, I have felt serious ly on my part and, for some time, I have had in contemplation the framing of a general catalogue of all our plants, from the line of the River Gila on the Pacific side, and the Gulph of Mexico on the Astautic — to the Asetic Jea.

As the framing of such a catalogue, which I, at first, intended for my own use, is to be attended with much mechanical labor and expense of time, I would wish now to make it respect to others, by bestowing expension all my attention and corner hers, and having it published in a manner which would make it accessible to the Student of 11. American Botany at large. Before, however, and establing this great task, and in order to accomplish it in a creditable manner, I would be save of your approbation, of your advice and essistance in a certain limit. I would wish to be the mere lobourer of your particular views, and have this catalogue to be a Kind of Skeleton of your future great work, Ageneral Flora Boreali Armericana, as free as possible of faults, or deviation from your adopted arrangement and momental ature.

My plan would be in the first place to write it in latin, and aparaumi.

Nervalen. To give 1st the generic hame sanctioned by you, with seminal

Characteristic. 2d a methodical encouveration by groups of the species.

With their synonyms, followed by the mostlaconic specific character promible, in 2 or 3 words, taken either from the leaves, flower or whatever other distinguish able trait. 3d the general hubitat, or geographical range. 4th the indication of the work, or publication, it which a full description, or figure, wreto befound.

This labor, I could easily perform during the Winter months and I am assured that it will be published, all at once or interoparts, in the Journal of the Phil: Acad. of Nat. Sciences, or in that of the Philosophical Society. A certain number of extra-copies words be struck to be 10 D separately for the benefit of the Tournal . If well performed, such a work would, undoubtedly, be of great assistance in the study of 12. Am. bottomy, until we have a general flora. In view of this project, my dear Do Gray, I come now to ask you, 15. Whether you approve of my plan, 2? Whether you consent to assist me With your experience and advice, by amwaring my occasional inquires, and providing me with the few books which I could not procure here; 30 and last, Whether you could go to far in your indulgence towards me as to coment to revise and correct my manuscript, before giving it to the fires . (This said, I feel it is too much and beg this favor only for the first families) _ Ilm your smoothly Enough, Ithink, When on the right truct, as fair as I were assisted by your flore of Morte America, Which embraces all the preceding publications; but hence -fort I could not proceed without the sequel which & Tong and yourself have prepara for publication, estres in printion manuscript.

Please, my dear sie, give me your frank und friendly opinion about my plan in a short and ready amover. The rest will be more casely answered, when I have submitted to you, as a specimen, the

pur natural orden of my intended cutalogue. Should they prove Worthlen, I will stop, of course, unles I can improve by your suggestion.

I study not be able, however, to enter upon this labor before 402 5 Week,

Jist, as long as the whather permits me to work in my unheard academic

20010, I will be occupied with the study of a large collection of filants, collect

ain the Canery Islands by a Mous. Despréaux—Which collection!

measte out saidly enough through the assistance of the beautiful

Work of Mep? Webb & Berthemos. This enormous herbaium of

Despréaux has remained unnoticed on the Sheller of the Alademy

Too more than 20 years, after having been exposed to danipmens—

The plants are somewhat dans aged; but good specimens may yet be

found con ong them and If you want a let, It is at your tervier.

To close this long letter, my Dear Sir, I with say that, if I dent possess a propound scientific Knowledge, I feel not with sawing, that there in the treat interes devotion for extreme which you have so much advanced by your labors and Valuable publications, that might lead me to produce something enoful to botanist, had su quide to direct me. Same had working man and, if I were at your albow, I feel I could assist you great, as a were mechanic, under the direction of a superior artisan, as you we.

All my desire is to be useful in the limits of my abilities, and this feeling whom from the mechanic to whether a desideratum, which no abbut hand seems disposed to perform, and is seriously wanted by the student of North American botany, until We have a complete flora Box. Americana.

Nery sincerely your friend & humble Servant

E. Durand

This. Det. 222_1858.

as as a second of the second o Thave at my Disposal all the publications on botany that her a been issued by the american pren - There Hooker fl. Nor-americana. Beutham Pl. Hartw. All the travels to the write dee. I have not Hooker and Achold - Druhumond, Douglan Royce to the second of Please give the the Little of the best botanical words on M. American that have been fublished subround and many lwented in a bot Library - All that is pointed out to our liberal wed rich colleague B& Wilson, is investitely furnished by Ain. 2 201300 The second of th conservation of latter to the server in for at 10 160 are in a filter is in the second of the interest of Cash to the second of the seco En year to some in the second of the to war. and the same of th to meen in it executing a los here to conjust of a the same of the sa A low as love in the series and trappedly love o 1 mile torse of the cold and the second of the second o white on the second of the sec The same of the sa

Prof. Asu Gray, Cambridge.

Mille pardons, mon ther Doctour, d'interrompre voi grandes occupations, pendant lout au plus une heure, pour examinner Ces quelques plantos que le Colonel l'une m'a apportées des régions du Lac Jalé. Elles out été eneillées par les dances mormong qui doivent être des anges, prinque leurs maris sont des Saints?

et Jous ce rapport elles méritent quelque considération.

Comme le plus grand nonsbre de ces plantes he le trouvai ent point dans la Collection du Major Stambury, qui a été dévrite pour le D'. Torrey, l'ai prense quelles Jeraient pour vous de quelque Valeur, en ajouteur quelques d'onnées à Celleque vous ponédez déjà sur la végétation des rives du Lac Jalé (que le trouve peu d'ifférente de Celle des autres parties hou salées de l'Oregon.)

Veuilly Corriger les erreurs et me donner les home de

Celles que la viai ple reconnecte et quides pour vous les dup, l'este on manne les specienens uniques que vous pourries des ires. Le rest. Je le reserva pour l'herbier da l'Academia.

J'il y avait du nouveau parni ces plantes mormones, le pourrais enfaire l'objet d'une petit notice pour le sournat on les proceeding, de l'Academie des sciences qui, matheureusement, sour toujours bien pauvres en matiène botanique. Verillez notes pour lu procheine edition de votre manuel, le Pines paugees, elich.

Comme le trouvent dans la limite de votre Flore. Il vient d'être d'étre d'écouvert sur le Chaine des Allegahuss, dans Allegahus County, Persongluania. (ho mistable!) Les Comes que l'aiven sont plus gros que ceux que l'ai ven ouperavant et indiquent degrand, et vigourens arbres.

l'ai commencé men letter en français lous mien appierer.
Voir, le croir fort inentile de la Changer, persuade que vous
êty parfaitement an fait de ma langue mestale.
Mes Compliments respectuence votre dame et

Mes Compliments respectuençà votre dance et Creyez moi bien sincèrement votre devoir serviteur et ani É. Durand

Phil. 27 Ferrier 1859

Prof. Asa Gray, cumbridge.

Cher Mousieur Gray.

Your debate with Prof. Agassiz on the two hypotheses of a longle, and of a multiple virginal vegetable type has highly interested me. Atthough I have the greatest respect for your scientific opinions, yet, in this instance, I have not able to side with you. I was urged to communic cute to the Philosophical Society the I chat hat had talken place between you and Agains, and to express my opinion outher Subject - I had even prepared a long paper; but on reflexion, and fearing I hat my powers of elocation and want of Junk Could not carry me Through, I remain délent. I was afraid also that you would takeit en manvaire part. I send you, however, the substance of my ideas on the Inbject, after having communicated my paper to Leidy who favors try views and to James who expressed no opinion whatever. You will oblige me to theep me un courrant of the forthcoming of bate, I wish to know how you will what you have to lay is Suggest of your hypothesis. We shall not see clear in Those My oteries before our poor Souls have past to the other world.

You have not been willing to accept as good my new species of Dodecatheon Ellipticum, Nut. which I wik now call D. Wuttakie as it leaves are not always elliptical but rather spathulate. I will perhaps convince you how that I was in the rights Here is a capsula of the original Nuttall's specimen, See how different it is from the Hot those of the other forms, which are oblong and pointed and always definite to the matter state. This is ovalulable to bose and depressed at top and hot definite tasis the other forms.

I do not know what I shall do with the Small fellow I sent you, coming from tall lake, it is marked leven or Leven river, may 16, in a black loom. Black loom is a rich soil and consequently my little plant is in its natural state. Had it come from the two matters or from a bad soil, I might have looked reposit as a starved plant, but I cannot now, and I through suspect it to be an individual form having all the qualities of what we last species.

With the View to get Something more from that region, I have presented a paper entitled of Method the botany of the Great Salt laste of Mak" made up from the specimens that have been bablected by Tremont, Stansbury, Beek with and M's Carrington. Ithought it would be flattering to the Mormonday, who col. Kancetell me is very intelligent, to see her have in print. If my Metch is how very far from complete, it will afford me the occasion to complete it by new accessions to it through that Lady. Kance hus left a sum of money

of Draba brachycarpa collected at Managung brille from the

Very cordially yours

Phil. April 16th 1859.

Prof. Asa Gray, Cambridge.

My Dear Doctor Gray,

After having first acknowledged, with thanks, the receipt of your fraper on Some Rubiaceae, brought to the by our mutual friend Mi James, I will sollicit a few moments of your attention: On the commonweament of the death of Mi Nuttall, at one of the last meetings of the Am. Phil. Society, I was appointed to deliver an obiting and biographical notice of our deceased friend. Had I been present at the meeting, I would have declined that house, on the plea that I was much less acquointed with the life of N. than several other Members, who had been his intimate friends and were much more competent to perform the task.

At the next meeting, I offered ansuccessfully my objections and, on the promise of assistance, I did yield, I ceing that nobody would take off the burden from my shoulders: I would not have the memory of one who has done so much for our science, neglected and pastover in silence by an institution of which he had been a prominent. Member. I am, therefore, collecting materials and have already a good heap of them. I am how wanting some little details about It? Nigresidence in Cambridge, which you can easily give me. He must have been called there in 1823, and left in 1833? Was he at cam-bridge in the capacity of Professor of Botang, in the Chair you how occup, or as an adjunct of Deleck, or simply as one of the curators?

Has he left any particular trace of his passage in your region, recollected

by his contemporaries and can you give me some informations about his ways & means, when he was in Cambridge?

A more, and truly important service which I begof you, is your assistance in a critical opinion respecting his scientific labors. I do not feel sufficiently posted up to give my own, and I have not as yet booked seriously into his works to form a correct opinion of them.

As an esystorer, Nuttall seems to me to have done more than any other single Botanist. To him we are indebted for about row new genera of standing worth, and an infinite number of good species. He has been indefatigable in his labors, fearless, and has accomplished the most harrassing and dangerous journeys ever undertable by any other botanist. As such he deserves a good notice.

His Genera of M. A. plant, I have always much admired; it is his best production, Wilhout any doubt. His descriptions are accurate and evincing a peculiar botanical accumen characteristic of one born for such parts: Had his descriptions been founded upon mycroscopical inquiries as yours are, he would perhaps have curtailed this number of his new creations, but his observations were always made with a small magnifying glass of very suoderate power. His defect have been in his excessive ambition to surpass his colleagues in the number of his discoveries and specifications. If is his last publications of R. Mit bregon and california plant, he has unreasonably multiplied his genera and species, it may be owing to the above cause, as to the

Lapidity of his caplorations through regions which he has not had the chance to Levisit; Talling, for instance, in the loining of a new genus, for a distinct—ive mark, a trifling deviation of another generic form, and in his new species, simple alterations of forms, brought on by difference of Soil, of exposure, of age. This looseness at creating new genera and species has resulted in the just curtailment of his new creations; many of his new genera into Subgenera or Sections of another genus, and many of his species into Subgenera to Say the least. However, we must remire that he faithfully pointed out the actual difference, however tripling exciting in the object of his comparisons. Has he not in his sylva introduced loo many simple shrubs which ought no tobe there?

Nothing, or very tittle is Known of Muttall, in this city, before 1817. So far his acquaintance had been among gardeners, The Bartan, Carr, Medron & Others, all dead except Col. Carr. He begun to be Known in the Scientific World in 1817, when he became a Member of the Academy of Sciences & of the Phil. Society.

He is said to have died at 73 years of age. To me who have seen him frequently before his departure for England and at his last visit, He appeared already an old broke man. When I last sur him, I took him for a man about 68 to 70 years of age. I shall give no names of my informers in my notice.

Please, give me a full answer, I shall be much obliged to you and beg your indulgence for the trouble. Very sincerely yours Phis. Oct. 7. 1859.

Dear Do gray,

I have not been able to meet W. Vany, who attends to the accounts of the Publishing Committee of the Academy of hat. I ciences; but I left your paper in the hands of the Librarian, to be delivered to him, when he would come. I have just learned that he had written to you directly on the Judgiet of your inquiries.

I have, Therefore, nothing to Jay in this regard; but I will not Let this opportunity escape, without aveiding my self of the pleasure to Jay Something about botunical matteri: My notice of Nattall is not yet printed. A good deal of matter about new laws and regulation, a lengthy paper on philological subjects and a serious Tickness of Mr Lesley, who attends to the publication of the fero cee Dings, have Suspended for a while the publication of the matter in hands - To soon as my notice of Muttall is published, I will Lend you a copy, with a short Eeview of his labour, Which, of worthy of consideration, you will favor me with an insertion in Sill. Sournal. I addrew you now, although late, a copy of a prepar which I published sometimerage in The Tournal of the Thil. Society, cutother a Metch of the bottomy of the basin of the great Salt Lake" In publishing this poor paper, Which I tall heretate to send you, I de not expect to give much Scientific information, but I hoped to Itimulate the botanical zeul Which Col. Kome had raised unoug the Mormon Houries, and induce them, by the means of 25 copies Sent to them, to pursue their work of exploration and thus advance Somewhat the Knowledge of the bottomy of that Singular regions of permanent pickle. In this consideration I must be excused forth poverty. I have been Very actively employed these last lix mouths in framing

a general cutulogue, with Ignoryus and localities, of all the n. Amer. Ilanto, published to this date (at least in the books at my disposal) - to be used as an index to my herbarium, and to escertain by means of marginal asterisks, what I have. and what I have not. This was a great desiderature to me, as well as to other botanisti, until you have published a new flora of North America, I have learnt with pleasure that Thurber had been engaged by the smithsonian Institute, to make such a catalogue. Such an undertaking could not be done with Saturaction, unless assisted by you and De Torrey, and under your direct Supervision. Thurber, I have no doubt, will have their and vantages. I'rom what he has written to me it will be done on alarge scale and wanting nothing but your descriptions to form a complete I'lora. To far, my dear friend, our Amer. Notany is teny yet very week Confused through the difficulty of procuring books and as to the names Which may uttimately be adopted. The puzzle must be tolved by you and De Torrey; no others can do it but yourselves. I have no faith in foreign for tamiste about our plants. One half at least of their new species are superfliction.

In perusing my herbarium with the view to mark what I ponen, I have found that, of between g \$10,000 Species or varieties of M. Am. plants published to this day, exclusive of anophyta, I had 6200 well determined, with a good lot that are not determined as yet. I lent Thurber, from my own collection and that of the Academy, more than 200 graves that he had not been. In many instances, I find 2 or more species still retained as distinct, which to me are indulitably form of one type. It think also that I have some that have not been described.

With a more cureful examination, which I have in contemplation, I think I would be able to furnish you some useful remarks. Will you permit mes to undertake it and to send you the Specimens upon which my remarks Will bear? Taking only the first gener of our Flora, Clematis.

I would probably prouve that a specimen marked by you C. Douglasie, is the same plant as Nuttalli own specimen labelled by him C. Wyethin. — That the Tessan C. reticulate of Wright is the same as C. Pitcheri fund perhaps a Var. of C. reticulate of Walter. I have also same reticulate a specimen from wright collection under the name which seems to differ from all the other specimens by it very large leaflet, not very reticulated and comparatively membranaesous. I have another queer climating from James Read Collections, and probably from the Jouthern states, which is an undercribed, if really limerican. The leaves are firmate, sucoth with marrow-lanceslate leaflets like the linearilates of De (Which I have, I think, and is different from C. Cylindrica). I send you a bad drawing of a leaf to those you my artistical still? The flowers form a small provide of a leaf to those you my artistical still? The flowers form a small provide of a leaf to those you my artistical still? The flowers form a small provide of a leaf to those you my artistical still? The flowers form a

There remarks would, naturally, bring me to offer you a few critical observations on some points of your last munual - not in a Dogmatical form, I pray you to understand it well, but in aspirit of humidity and merely with the view to get enlightened by yourself whom I cousider, deservedly, as the head of American botanists and he's among the best botanists of the present age. To it dit sam flaterie, monther Doctour.

I confer that there been disciplicated with the Mess. Boundary Rotary. I understood that it would give in the names of all the plants of Fendler, Lindheimer and wright that had not been published heritofore, but, with the exception of the last collection of the Ivright, to which I have not participated, every limited number of the rest has been mention ned. I have thus, et, in my herbarium many specimens under

The specification "in certoe" and scarcely any means of ascertaining what they are.

Tell me is not veratrum Hoodie my V. Californicum of Pl. Pratte?

it looks very much litte it.

Very sorry indeed to have detained you so long, but you with excuse me, I can sure. Believe me very sincerely your affectional fried E. Durand

After writing this letter, I have been induced to look again at Mi Read's clematis to ascertain providing whether was N. American. Mr R. had collected in the East and West Judies as well as in our Jouthern States and a foreight flant might have Stopped in his Associant has laviname. The lable, inhis own head writing is simply this Clematic crips I. Sy-22. ho proof theo that it is can american species! Referring to Dea prodromens, I find her of the description of his longitoba, achinen plant, answering perfectly the Specimen of Read, which of course I let down as Chinese.

Buckley is now in Texas. He has vined Prof thumand in his geological survey of horthern Texas, a section not get Visited, I believe, by botanisti.

begin to be tired of it and have come to the conclusion that more queblic good cambe done by a Wive King, I urrounded by Wise heads, than by a set of bavards who have at heart their selfishmen or their ventity. Humanity cannot create anything perfect; but I see here more security, more justice, more honesty, more true happiness than I have of late seens after U.S. If you have anything to ask in Paris, write to me; Otherwise I shall hear from you with great pleasure.

With these, my dear Dr Gray, and with my best respects for your lady, I remain very cordially yours

I will not return before october.

E. Durand

86 Boulevar Bennarchair.

Paris July 27 1860.

Prof. Asa Gray, cumbriego,

Deur sir,

Above two months have already elegred since Jan in I'rance, Without even thinking of our science. I have Jeen, pressing by, many old enquaintances in the feelds; and past many oregon and California flowers in the garden Wilhout I currely looking at them. All my attention I o far, has been spent upon my humerous family who has been fearting the return of the long excited brother and uncle. For will be estouished to hear of the immens increase of that seems family, during the thirty five gener of my absence. I had left six brothers & sisters, With eighteen Children, and Thave found that number increased to I eventy eight, belonging to four generations and cell healthy and in prosperous conditions, all cordially united and all, if not personally acquainted with their usucrican relative, having either corresponded with him or heard their father or mother affectionally speech of their youngest brother, The American citizen, The reception I have met at the hands of those good friends has been most cordial and, so far, I have Devoted all my time to the best partion of them, Visiting afternately each scion of the mean truck and passing my time most pleasantly. I am now starting for old Bretagne, my nativa province, to see the rest of the family and, only Then, shall I be permitted to think of Botanitiand Botany.

on my wrival in Paris Id clivered your good letters of introduction to Mess. Deceiner, Spach and Gay. I have seen Mr Deceiner three times, Spach once and the Kind-hearted Mr Gay more frequently. They have all received me Kindly

and I will see more of them When I return. M' fay having had occasion to see Mrs Vilmorin and to speak of me, she exprend the desire to see me, and begged her fay to bring me to her house, when she would be intown. A time was appointed and I sawher yesterday. Other-wise, I would not have called upon her, as I had a prique against her deseased busband who had not as I thought, acted Kindly towards me in relation to my memoir on Michany. I did not I how the bad state of his health forwhich I am now to account for his neglect.

- her; Every thing in her brought back to my memory the happy expression of one of your letters: "That the was the best type of a french lady that you had seen!" I he inquired much about you and your lady to whom the very justifictures the compliment addressed to her - self by you. The Showed me with home escultation your fortrait hanging over her mantle priece and told me that, since the death of her husband, the had not had the courage to write to Mr gray; but promised me to make her the bearer of a long epittelo her. I shall not faid to sall and see her at her country text, and remember the foroning the has made me. I will also see old Mr Michael.

Me Decaine asked me some inquires about the Comandra: If I had remarked that it was a parasitie plant? I recollected only that I had generally found it under the shad of large trees. He suspects that all the Suntalactor are parasitic and requested me to inquire if the Backleia

Was not 250 } I think he has written to gow on the subject. A large specimen of Comundra Livida, which I have seen at Mr Gay's in a Collection of British American plant by Dourgean, has a very indication of purasitism. The roots are very long, whoost horizontal and equalinsy at the less estimates and ever abraptly broken.

unnerous specimens of Hedysarum. My idea that the 3

species described in your flore, might be varieties of the Vame, is quite wrong. There were two very distinct species, one marked borcale has very large brown stipules, the other labelled Mackenzie had smaller pale stipules, with larger flowers. De Torry has justly named his Utah Hedysarum H. Mackenzie and mine belongs to the Jame. As the Lastyrus venosus, our plant shows many different forms, John with large oval leaves, others With harrower & Incaller leaves. The Jame With the placer.

ments in France, in everything. The progress agriculture we increase; the roads are spleaded; the cities embelished and admirally clean and the people apparently happy and contents. I have verified the expection of our bishep Porter of Philadelphic ((The French trations a nation of well dressed people and trappy faces; I have not deen a ragged man in the whole of France! They talk abroad of liberty. I have mether every liberty possible; I have heard the freest conveniations. The only restraint is on the press - the freest which withins is too frequently I cand alons, lieging, abusive, tealoux et de

Leaves undersurface of the leaves pole and much lations. fruit to Winger; two lateral wings double in Width The The 20 Thing I tyle long; micronate. I will tree. : Las I'vining Nuttallie. Lenflot 5-7, hunceslat went at both ends, irregularly toothed; uppersurface smooth, under Statisted fections long glatrous: fruit ovat , lancedate Je Wing 2, acet at both sult I triplera Which hibelien, with a mote on Nuttall & T. triplera Which hibelien, Carya Texana. Leaflets 7- 9- brown-overto or water Concestate, Thay Glenate, Specotton both tides faler beneatt, acut tat obtain or acute at hope a steminate " to protest cuttien subpularent Fruit grobular, Lunger Highlite 4 angle . Thell this separating to the base Trees 3-4 feet diamoter - 40-50 f. high, leuflet & inch forge 2- 3 inch 6200. He. querens Shariour Lew wollong or oborat in convergent, 3-5 on each side. Lobes many touther, Leeth shortly & Setacrously acut. Acorn globular, or overd-Oblong, Inbucute. Cip Thellow, Slightly large . Scales acute. A large town the thisway despose leaves. Atten resculting that of go tentre, but more acute. . A Grancus Texante . Leuren orale obling in outine, Imost both ides, deaply sincerte friendictified with brown Arverjent similes, 3=5 on each led a Lober 1-3 toothe Test went setations - Atola ovoid obling wenter

Crep humisphericut, Higher tungi), I cales acute, Closely apprend source for a sold and the sold of the g. Phello,

Readine Sin Fift is witt which chir often anocialed the tre.

Leaves obovat entire or slightly

I - Lober of a ger with red: went of one or more lobes,

at the margin tol as very obtaine. When waters timook

on both 1:2m. Acord rotund or ovoid-rotub. Margin leaves 3

Very Philipport obspacents and a present leaves 3

Long about of rinch. Wide, Jeanely one eights of an inches being inches. Wide, Jeanely one eights of an inches long inches. Wide, Jeanely one eights of an inches being inches. Wide, Jeanely one eights of an inches being inches.

Then 2-3 find amoter - 40 to 60 f. Light - Lapen with ling of the 1802 is the Beautiful way to the

the not on querem coccinea.

Dear Gray

Will you oblige me to give me your possion about there were species as soon as you prossibly can. I have to report at the next meeting, twenday next. Buckley is I think, a good observer in tree especially which seem to be his favorit object. It is he requests me to imprise and not to publish may that might have been imprise and not to publish may that might have been described by others. It is remarks on those trees are pretty full. I expect him in December with a copious bretty full. I expect him in December with a copious but of Texas plants. A writer Lincecome

of Long point, Texas (Whom I do not Know k has writtento me willisopormation that he forwards In a collection of Texas plants of wout 400, Which he has mad - h: The daughter: They will be welcome and communicated to you. by der deat to me for the stead arry of E was Mun hat Expect to your good forty past Low whom the distribution of the open of the open of the open of the beauty one of the open of the beauty one of the beauty one of the beauty one of the beauty. There 200 for in : and in - 40 to 60 j. higher more seen

I test you gesterday & Copier of Vilmories Ha not on querus coccinea.

Will go on Obling a tree to give tour you operation about The see species at soon as you possibly com. Theore to regard int the next to ting, tweetay neat. Buchly le ! le la copo de mer à très especially which I are in the person to thing the re guestione to I conjunter the most to feeliste , my that beigned had been describe a by others. His issuestes on those brain when posity feele. I cape or him in Jarandon with a copie . reason wood Treas plants. A mister discusse

decora industriques of the a co peter much its ales + if froto the series wing doubt in with this . se though worth in This Delphia, I gother fevide Letter surrough which two of Builting, from Texas, I'm ig the two papers for the Academy of het weet themes. of Several new plants. M: B. tills me that they have - Ithey & Duswist Stone ? person by other botanite. This is what Job warm by toffly ing to you. I will give you herewith we a browiefer Box or plion of Them Till tim Percentition Von it vote offings of the .. Tetals what oval - lanceolate, a late hearly equal orthoring Than the sepals . Sepals obling, water, obtains. Bland by wither high thith teaves 4 1 % 2 harholong & 2 lines wide. creer or Highty curved, much longer than the pality ellow corolla. Calif carry anulate, Division obline. Proceeds Thertoh hotofourist dubplotucent - flowers Deise . Lastery , destidas, of all landolate, acut at tother, suntinolity house suger subspectation think 3-5 feeligh. Most Hesterica within stand gener brages grater proper contra the thidge to dechery & little by destate - Cest I mall west

Mon Cher Docteur,

Communicate to you: One is from M" Decaines,

thanking me for an envoice of American Chement,

Cultivated in West chester, and fully equal to the

fixes chement or maroom of Europe. In regard

to this, he take me in what Americantrolamist,

find a Difference between the C. Vulgarie & C.

Vesca! He adds "April avoir va les votres (cultivies)

Je me demanded an cela its hout pas commis

and erreus. J'ai tout lieu de croire que les deux

cirbres sont identiques spécifiquement, au même

titre, air moins, que l'Indien Americain est

lité d'ans les plantes, plus la trouve que les botanistes descripteurs out multiplié les espaces Jam raisons suffisantes. " Mèreis un opinion

quel conque. Plus l'examine les faits de Variabi-

Which is yours and more. I have never been

able to find a difference, except in the size of

The hest - and how by peroper cultivation, This Difference Disappears entirely. Ours, in the Will

State, are more survey and sweeter to my

I send you herewite the Description of somether stand flants by Buckley. You and or Forrey trad requested sure to Deffer the possibilition of this paper; but it was too late and, outhoother some B. had requested me to hurry the publication in fear to be anticipated by others. In meather of trees, I have a great confidence in truelly who has made trees his speciality.

your happiness during the forthcoming years and many succeeding others.

your sincirely & Durand

my Compliment Niegards to Min Gray.

Reflexion faits Hyou prublish my hotien

of Nattale in Sillimain Tomonal (Which, I think
you onylit if not for me, for his memory) de

not publish the review left his worth which I

have added in M.S. I fear that such review be

above my ability and distances.

taste, and this consideration induced me to tend to France This fruit improved in 1ize; but I did not taste it before tending it, in order to not to diminish the number I had to tend.

many of them arrived rather injured, and Mid.

in Custing a few of them Did not find much ifference between them & french chesnet; only,

perhaps, last astringent and sweeter.

M- 8. beg, me to send him seeds of Amori can Encurbitaceoe Which are Wanting in the Collect ion of the gerden of plants, and that with the View to Encur Thom and Study them for a monograph of that family. The only ones, they have now are: Cucurbita persuenis, The two echinostylis and sicydiam Lindheimeri. He wishes particularly Bryonia Boyllinis, Which he says is yout - surkness, to them

how, my dear De gray, the Object of this
latter is to ascertain if you can now, or hear
autumn, procure on De raisne Joure seed; of
American Cucurbitaion, Juch as Sicy or angul.
Molothia pindula, Bryonia B. Cyclanthera d'iseque
Elaterium Wrightie N.E. Coultri - Megarrhyza cu- Cifornica & oregana, cucurbita d'igitata, Apadanthera
and whata & c. if there are others?

The second letter is from M? Andre Lero: of Augers and here are his words: "Se serais tree-heureng d'étre en rapport avec votre célèbre botaniste Améri-caim, Mr Asa Gray: J'acurais prodégieusement à gagner avec un savant aussi d'estingué. Venille donc lui dire que mes collections sont à la Dispo - sition, et pour sui faire connaîte la plus grad partie de ce que de prossède, de sui fair prasser, franco, un cutalogue général et d'escriptif des végétans que le Cultive. d'il a la bonté de m'écrire, de mettrai lout mon bouheur à faire lout ce qui lui sera agréable."

In an are the words of one of the most interest - ing and amicalle men I have met with hot a mare gardener but a gentleman of educa - tion and manner and at the same time engros botanist - Mever go to Europe, without seeing him and his immense collections of higher was Vegetables capable of growing in open grounds in that select and perhaps unique Climate of Anjon.

A few words from you, if you please, before I were there two letters, and some Details about seeds of Am. cucubitaceae.

Prof. Asa gray, Boston Cambridge,

Dear Doctor,

Jeccived, day before yesterday, your invoice of Pille's Pic plants: They are really beautiful and I shall not regret the money they cost me, however great mightine. is in these evenful times! You may draw on me whenever you chase, atthough the Jury-money, 10 laboriously earned, shall not be paid in before next March. I have recognized many old esquaintances which I have from Nattack in a sloven condition; These are dandies in comparison. I hope you will send me a list of names.

Of Gymnogramme lepto phylla: I sent him a specimen With ME 912 inus own lable, sequesting him to Write to that gentleman to ascertain whether he really found that ferm, its precise locatily and any other information. I have received the Doctors anwsor only the morning. He had been absent from home, and as soon as he has ascertained the address of min. M. he will write to him and transmit us his answer.

10! My dear Doctor, You have not gratified me With a Specimen of your lander Calcula. But I have one in my herbanium from Labrador, Which, I think was given to my Journ 30 years ago, by M' Steinhouth, probably from the Cokection of Labrador Plants of the Rox. Robelmeister. My specimen is rather diminutive and I have no objection to marry it with a fine fellow from Massachuselt. I am union to be what your theory is about emigration of plants, but I would not be Insprined if this Calma had come to you from my own native province, Maine, Which was forwerly a heasty country and has scarcely any at present, through the great progress of Agriculture. I everal families from my own town trad energy at the great progress of Agriculture. I everal families from the own town trad energy at to New foundland where I think that foreigner is common, through them. Do not publish the 3° edition of your manual, Wiltout getting some new information about the vegetable growth of our neighbourhood. Abotanical class has been formed in the boson of our Acade my, which, for their three summers, has been operating very actively in a circuit of ten with round the city and trans made very important observations. The principal Members are Prof. Leidy, Bridges, D' Barrach, Charles & Arubrez Smith, &c. I have found myself, in our common, Lepidian Camperta & ruderale abundants mined up with the surgery virginica of Ment, Which, your llow, is the Very C. I choosed as of Europe

I have heard that Cardamine presteuris had been found lestely in N. Jersey, There it also from Northern New-York and & Var. linearifolia from Greenland (Kuni coret, plants) D'Bridges hus found two localities in our vicinity of Duchesnea indica. Se. Se.

Thow to another matter: I love discussion! If the word parasite means one that lives at The expresse of another, I say that our Gerardice are not parasites. Ispent one week, last August, at a friend's country seat, in the neighbourhood of Bethteheun. There I found in about -Dance and in bloom, G. pedicularia, flava, quescifolia & tensifolia. That was the oceanion to verify the parasition of this genus. I falled the roots with all possible care, breaking (The large blade of a beautiful Krife) and to my astorishment I found the roots extremely I wall for such Vigourous plants, I carcely 2 inches long, with a tuffer of fibres columns capil lary, upon some of which I perceived wery small tubers or gland; not larger than Ooc. in a few instances those glands were cottached to fibre of gran voots or to token sticks of woodbut in no case, Were they attached to such roots from whence they could draw any subsistance. After many repeated inquiries, I gave up the examination With the persuasion that our Gerardia Were no more parasite than the Ivy Which draws no substance from the brick-wall to which it is fixed by something similar to there glands (which ought to be examined microscopically). I looked appointhese little tubers as instruments provided by nature to fix those small roots more firmly to the ground, perhaps by certain attachement, and protest those tall & heavily loaded stemp, against theaction of the Winds.

Juch was my View, When I received a letter from Decaine, speaking widely about parasites (It is a hobby withhim) I wrote to my Bethlehem friend to request him to pursue our researches of August, and send me roots taken from the ground with all 1011:66 precaution and ascertain whether they were connected through the glands With any other roots. How ther roots, so small in august, had growned considerably, Some were the size of a small quite, 8 to 10 inches long and the rest almost capillary and all extending horizontally or almost to, a few inches, (2-2/2) below the surface. The glands were irregular and much larger than in languist. I several of the Stouter fibres Were connected together by those very glands, Which Were Who fixed to rotten Sticks and in one or two custanen to living roots. Here follows what my friend says in this regard: "Obécissant à votre désir, l'ai examine envela plus grand soin les racione des different Gerardice qui la trouvent dans mon Voisinage, Elles Comprement

- " Celles des G. flava, quarcifolia espedicularia, is élait trop land pour le termifolia, tertiges
- a avaient disparuer. Il ent sam-doute été plus favorable, pour surprendre le secret decen plante
- " quilles fussent en plaine croissance et le crois que le mois de Juillet aux ait éte plus propre à cet
- " examen. Le Gerardia, J'en suis convainen, est une plante parasite, mais à quel Dégré,
- " cest ce qu'el est difficile de déterminer. S'ai trouve des racines presque sans glandes et mui vivant dans une espèce de terre de bruyère et autre matiein végetales " presqu'ésolées des racines Voisines. Vous trouveres pour mi celles que se vous envoye, des
- endroits margin par empetit morcean de papier blanc, où les glandes de la la rueine du ger. " sout fortement attachées à une lacène etrangère dont, comme une sangue, elles sembleut
- à sucurlavere, mais sentes crois pas exclusivement dependantes de la Cuisine des Voisies
- your lear subsistance. 11

This case, cited by my friend, is an isolated fact With half a dozentarge roots he hassent to me; and many Inch cettachements les the afore one are Visible between the larges & smaller fibres, 62 dead branches helf lotten. Intend of lowincing me to parasition of our gerardia, I am the more inclined to see in the working of their glands the formation of willind of het work connecting the fibres together or fixing them to anything in their vice Mity, to give tothers roots a power of resistance against eng external Violence. Compar -Our Gerardios to the true parasites, to our Phoradendson, accentobium, &c and you will, I think, be convinced that they do not deserve that engly name.

Decainer Considers the Santalaceoe all parasites. Buckley who has seen much of Her Buckleye & pyrularda, Says they are not and, although I have good reasons to believe our Comand ra sembellata a parasite, he assures me having found parcher of the C. Livida entirely isolated and remote from any trees or large plants. You have both Buckleya & Pyreduia in your garden, What do you think of thew in This regard? I have ready for you teveral good specimens of Gymanogrammelest Which I will send you to soon as I secrive a confirmatory letter from 8: Barring total

Guel bavard Jesuis! Adien and believe me ever yours

(-Durand)

With respect to your lady . -



arityourasitie, even in part.

I have received a hote from Mr. Hausser, who seems to themse that I dear his experience in relation to francistism of generalia. I had not read his fraper and my opening to you outhor subject was 18 mply as francising beneath. He promises to commune ment year and if I am not gone, I will go again to my friend's, where the ferardia are common and inquire for myself to what degree those plants are parasitie.

now good by and many good wisher for gowney

Four sincerely

Prof. A. Gray, Cambridge

My dear Doctor,

I send you herewith the answer of D'Darlington and Mr. Mc Minn, which settle the question of Gymnogramme. Please inform MED. Eaton of the lirementance, as I had sent him a specimen addressed to New. Howen, to ascert ain Whather I was right. I had his answer dated N. Y. but Without address. I have not the less fine & pecimens of that beautiful little ferwar your service.

I was much customished, yesterday, to receive the Visit of Mi Me Minu himself. Hais avery intelligent gentleman, an Engineer by 120 fession, and Tomewhat of everything in natural History. In botany, trees, Cyperaceoe and gramineos seem to be his specialities I saw in Watson's Herb. a summerous suite of Carices, among which a night probably be found two new spee. I have teen described somewherein Sprengel Kanthe, tender The hames of C. Watsonie & C. Kilvingtonie. This gentlemen, in the course of our conversation, smude Tome very interesting remarks upon several genera of our trees, Which I begged him to communicate to you. Botanists, loving in the Country have advantages of observa toom which town residents have not, especially with regard

In the small fernient by Mi Me Minn, I can see nothing more than Woodsda Ilvinsis, but he persist in finding some difference - so judge yourself and decide. He elso speaks very convincingly of a non Described species of Wine, formerly very common of both sides of the Delawere and on the bank of the Letigh, Whishis that Known by Grape-growers under the name of Delowar grape, He pretends that this Vine is redther Subrusca, nor Oestivalis and hus not as yet been described. Thave I sen a small Vine yard of it and tasted its excellent fruit, but I saw nothing in the hoston of I hope of the leaves or che that could prevent me from Earging it among the forms of Oestivalis. From my observations, last summer, on permenent and striking Cheracter Wiltour houten (and their derivative) Vines, Labrusca, Oestevalis, Cordifolia Xvar Was Thorace me Whoch, in the labrusca is short, Simple at the tops Wilty, generally, one recounte at the base, the fruit large and not crowded; in Oestivalis, it is long, comp - ound the grain medium size and crowded, with Cordi-folia dvar. the ruceure is also long & comproud; but the fruit small and scattered and rare through the aboys to a of mying flowers.

Your favor of 17th was hand I to me whilst I was
in courses atom with M. M. Minn. I would restro

have you to draw apontue as my account is in a saving institution which has no correspondence with any of the Boston Bank, As to Certalogue of the Pike's pie plant I am in no hurry at all.

Tour dessertion that Gerardice have not tucceded, raised in pots and iso lated from other vegetables, lowvine me ingreat measure that they might be parasitive. Indaying I doubted they were, I was not adverse to the axdorm you have cited, but I attributed the essistence of gland, serving to attach branches of one root to each other, see well as to other matters living or so not form an underground net work I each that were in their seach, I to a he cersary means provided by nature to strengthenthe feel to roots of such large plants against any violent action of the Winds, (This is a very long pressed out by the air sentence.)

At I may use some parts of your letter about parasitism,

I have added a negative to the last sentence of your paragraph about Buckleya [which negative I suppose, has not

I ropy a down from your pen, uncouse outly to your self)

gour paper runs than: "I fut Buckleya still stands, de
"I have made better layers than before - We I hale

"I see next spring if it strikes. If it does and I get good

" plants sorted in the soil and they grow unattached to any

ue thing - - Then it will appear that all santalexee

Phil March 4-1862 Dear Gray There just forward d by express a box Containing Buelley's hew species and other plant of a doubtful Character, which I pray you to labble, enpanant. I will also thank you to give me the hames of the Subjoined number of Lindhiemen Fender and wright I am not Jure that I forms out their true rainer. Do not Juy engling of B. I plante the heret weiter of Silliman: Wait Icuted you have the entere Luite. Then you could say that you have requested me to sand Them to you and I have head the - - . to send them to you. I do not believe that I sent you a The cimen of Lithospermun prostratum Which appear to te a good specier-some of Spesimare 18-20 inches long, perfectly prostruct on the ground . If I have not sent any, I will do it in my next - If I have Keep the whole for you, I have found a sheet pretty well furnished with other space. Your E. 8

Dear Ductor,

How much I pity poor Buckley! Will you not leave him this merit of a single new species?

Inwhatever you speak outher subject of his plants, I seek only of his published species. They are the only ones of there I sent you that he has rand - The others, even his own 11. Spec. I had labelled as the probable name or affinity, intending to examine them more carefully when he would have published, as I thought, a complete enumeration of his and D' Lincecum's collections.

I have Kept at a distance from him the time he has been Working, because he appeared Suspicion, wand afraid I would steak from him the priority of publishing them. He never consulted me in any thing and I have was so siell at heart as I have been in the awful condition in which he has det may fine Academy; herbarium of which I was so proud.

That I pollen to him of the necessity of labelling with his own hand all his new species in my herbaium. He said he would, but I cannot ask him again before you have returned them. I believe with you that the best planed be to make the corrections in the same

The last of the second

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1.97

W. Carlotte and Ca

the state of the s

& જેમ

journed in Which the errors were courigned; but as The Academy's proceeding is not a review, you Could not criticized With the Same ease as you Can in tilliman journal. The Jooner youdoit the better, for the man is really suffering under a monomania. Thereis not a treeting of the academy that he has not a prefer to present on subjects for remote from each other. We had last twesday a youngman With a Collection of plants (budly dried) from Tikes pick Very much the Jame as those of Parry- Hehad them bought by the Acedemy and I give five Dollars for my share With privilegato have olypticates. Buckley Greath already wout describing those that in his somed jugement the would be new, and he has made arrangements With that young man for a grand collection to be made next Junion, Whichhe, B. Would describe and distribut lemong purchusers. He went bestapped! I have no objection to your mentioning that I have fent you his plants, at your request- and I will tell him royalf, when the occasion foresants - and it will be took I lend you leed of austher Cueurbita The Ovifera Line. It is a curious fruit unembory

To much an egy that it would be difficult to

Separate it among one doz- true eggs. I send

you herewith a specimen of Lithospermum pros

tratum. You may Keep it, I have another fine

specimen with branches 12-15 inches.

So not forget to forward copies of your paper about Buckley her discoveries to Several of the friedral Members of the Academy, Min! Lea, Wary, Lecoute, Leidy, Bridges, Wilson, de.

Now that Elidurandia is exploded, I hope your next Eliosdurandia Will I vonappear.

Nelicve me, in great hurry,

Your sincerely

E. Durand

I have a letter of Prof Decuine. He does not agree with my theory about the houperasition of our Gerardia, but I do not believe inhis and I think I can ultimately prove my position by hetral experiment. I sent him row I i of Gerardia I wook apon.

Philadelphia Merch 2462 Prof. Rsa Gray Deer Fis Mr. Surand has gust Showed me your letter m which you contrage my botancal de scriptures pritt, swenty The truth is I was rather hosty Thisides the paper was hurred Through the provis without affording me sufficient time to correct the proof shuts with care. I brought for deplectes from Tipes Lowing to the heavy rains In Northern Jupes last spinne, many of them are very porbut This soungh remained for de -Scription & after depositing The better specimes on the herbarin of the Readon, little vemain ed for Darand. I beg you to

delay your criticism of the paper until the July number of Selliman. I would not ask This much had I not been very unfortunete me losing a fine property by the treaching of a pretended friend and I have Two little motherless daughtwo to support. Phase want a little. I have every confidmen That must of my described specus will prove to be good, I am Confident that Clementes Col. oraclours is not Clements Bigchow For, but I have not time is will the prosent depressed State of my fulnings permet me The Compose notes in my room en It abonce of books of referance. I smal you another haher I will be obliged if you will let me know by letter your opinion of it yours truly S. B. Buckley Deur Docteur.

I have done my duty, however painfect, With regard to Buckley's affairs. What hus not been done, did not defined on me. The week beforether, I read your letter of the of the to Leidy & Vary of the committee of publication communicated the same to Buckley to advise about What wastabe do! Lours of 15th atro, received, monday morning, Was also commune a cuted in the same way and, between us four, we had a meeting of sword hours. All Budley's papers were printed and the first part wardistributed; Thould the last proper be Withdrawn Was the principal question, They included Cyperacia and gramines which I never som before that day, when Buelly presented me the first proof to correct. I do not know Sented now sent to the Committed Although B. asserts they have. B. could not pay for the printing; The Academy's Publishing Committee is without funds, and Buckley is confident that the last part is better Written than thefiret, - worked with more extention and the most of his new species will prove to be good. We could not find any roundy to the sore inflicted and it was finally agreed that it would remain so -Assepteding your ind alquee, Which Leidy said he would write to you.

I pity the poor man, indeed! He has been working most attiduously

I wice I way and I have no doubt, with full confidence in his powers and

accuracy. It has, however, been quilty of little tricks, perhaps unintentioner,

Inch as presenting his prapers at the last meeting before the business meeting

To as to give the Committee but y day, to permed his prapers (Which

was read by none) And I can I were that the graminess were no part

Whatever may be the result, I do not want to have anything more to do with

it; I leave it now between you and Buckley, Who, I fear, has ecased to

of the last let that was put in my hands. He threw that I would oppose the prouting of franciscoe. I had given him your advice and mine in this regard-with a Warning. (This confidentially)

New, Dear gray, Wais until you have his specimens to compare - He might say that mine are not authentic; and insist upon having them sent to you. I was urging him this morning to let me have them. but he armored he would doit, when the weather would permit him to work upstain, when there is no fire how. I have not been able to bring him to my home to show me the new species of the second part of his publication.

I have done with him!

I have been occupied this Week With the plants of Piker fice, brought by a young man of the transmof W. I. Howard and bought by self & 2 other members for the Academy. They are not from the plains and the Vicinity of Weeka. They were collected in june. Its they are mostly different species from Period, I will send them to you as an object of botanical geography. Which It might be proper to add to your enumeration. I do not believe there is a single new one and it is carrious to see how many of our Attackie species reach as far as the Plocky moinstains. What I will send you is my than of olapticates, with a few exceptions which being unique specimens, I that return to the Academy's historium. The collecting a new of Howard Will not interferent with the future Collections of Parry and the more Collectors, the better Known will these segions be. I will send you to the dame to the lates of the auts of I thank and you to the lates the future to plants of I thank and you to the lates the lates the lates of the stays.

Very Cordially gours E. Durand thinself that he has not delivered your Celler to Laidy and ask for all possible indulyences and do for him what you can.

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Adieus!

Fear Doctor.

I write to you in heste to let you know That, to this day, Muckley has not delivered your letter to the Curator, Which yoursey you have disputched under his cover. He has not said a word to me about it and has Worked viry title in the Academigdering The Cost Week . He is really acting quite foolishly a title franking and confidence towards those who have shown freisiship to whim Would be much better they might help him to get him out of his troubles. I think ha medi letes leaving Thiladelphia for other quarters. Write directly to Leidy, Acad of hat beines -I have, this morning, communicated your letter to him. Enough about Buckley. a saw propering for you a puckage . of my likes fice plants obtained from Mer. Howard. I send them to you with the view That you muy ascertain their spacies, and add to the enumeration of Parry's collection those enong them that were not in the latters collecting and there are many-about one half, I believe.

The greater paint of Howard Collection was made in the Vicinity of the lower of Ureka at the foot of the mountains. If I had not feat it out of the way of B. He would probably have described ten more new species.

With Them I send some specimens of my herbarium of Which I desire to Khow the have. You will find my three circlic species of Pedicularis which I submit to you I would be much mistaken if P. Kanei did it is purhayather one, specimen institutioned and feeling to have, however, been I omershat that we my opinion by seeing the numerous specimens of P. horsata brought by on Hayes, with this beares delicately private and rache sometimes scarcely diluted.

This package has been ready since alveck, but I am expecting every day the return of Br. Hayes to send you, at the same time, three secondays of his writing hauts, a fullow for you and the two others for the Boston and Care. bridge societies. We have not received as get the transactions of the Lineau Society, I. am auscious to Know what the great man Hooker says of my humble self.

I have received a box of about bood ifferent Leeds from Decaise, to distribute among balf dog. friends, principally gardiners who have collected seeds for him land summer When they have taken what their school I will send you the lest for your botanical quiden. What will not Institute quellemen quidium, will not be unwelgome in a botanical garden. I apringled to teagon La Communication with our botanical club-Men's Smith, Leidy, Bradges and You may depend on the information they may give you respecting the lacatity of many plants that had not be higher before as growing in our heighbourshood.

I have Sent all my Caricusto Me Deway Who has prosicised me to put them in order - If in those plants of How and which I submit to you, you find desirable Duplicate, talks them - It is my share in the purchase we have made

of his poor collection.

Very sincerely yours

Come this paper. I did not Know, when I begun, that it had something written on it.

Dear De gray.

You see that I am Wide awake. You have line received this morning. You see that I am Wide awake. You have line received what plants Buckley left for me at the Academy. Thave not seen him for a week. He comes no more to the Academy and his conduct towards me has been to lingular that I shall not call to teo him.

As I visited the botanical room this knowing to obtain for you the benothered Castilleja of Mattale, I made researches to find out in the herb. The Species specimens of which I had not found in Bis parcel; but I olid room find any It is probable that the parcels apon which he made his descriptions were sacrificed under the directing process. I loud not look for the graninese, The room being very encouportable for want of fire.

Pleas to cock nowledge 16 him the receips of his specimen and mention which are wanting and whether he will send you his framine oc. I do not want to have anything more to do with him directly. He act too foolishly! I have add them to give you a better chance to see their specific characters, this specimens being querally quit incomplete.

Jhave nothing more to say, except furayou well & believe me every ours

E. Durand

Cher Doctew,

J'amai une bien longue réponse à faire à votre bien longue lettre du 19 courant ... and my eyes are very sore! I have to take up your letter with the view to answer it successively in the same order:

I saw De Hays, last evening, at the meeting of the academy and presented him your thanks. When you have finished your revision of B.

first set of New species, please address it to Prof Leidy, one of the Comwister of publication (It is so agreed between us.) Write to Link a

communication intended to be read to the Academy, Whatever you

may think advisable and whatever may be your opinion Withregard

to that publication and, as your say, restrain your natural indignations

as much as possible and let your revision be limited to the headful

corrections; but speak openly in your letter.

Buckley came to bid me farewell yesterday at my roominathe Acad.

He left this morning for West New York, promising to return in the automa and Send you the remainder of his plants. I asked him if I should find them in the herbarium labelled with his own hund—

He auswered they were and, of course, I will look for them en soon as I have time and will send them myself. I have looked for the four species you have not received had send you the Sericocarpus Woodhousie and the Actinella langinosa. As for Francius nigrescens & Saxifraga Texana, He had no specimens With him— He had written the description on the Spot itself.

You doubt of the Vericaria arctica? I did also - the Spec. is too incomplete. The same may be said of my pretended arenaria arctica.

I have no time to examine the proba Chloranthe?

To love my Pediculario Kanci on account of the Doctor prince

Juguet to loos my Pedientario Kanci on account of the Doctor friend theip

many faulti- I am glad to have the heacher bractesta and there are a few other good plants. I have put wide and send you all Muttall's Pentstemon and Castelly'a that I have found in the Academy's herb. and in mine _ I have separated them please return them so that everyone may have his die - I have wood a few other with hasty notes.

Low Lemanth of the Number Lagittata are very latinfactory and I have no doubt that it is so - Lecoute and Nuttall from whom they come separately Must have been familiar with this plant. I was very much puzzle at one time, with Jimilar this Correct leaves which I found in the Lebrigh river and which I ascertained some years after to be the early leaves of Number lutes. but thou leaves, although of the same form as those from Muttall, we much I maker - They might, however belong to 11. lutes.

My respects to your lady und believe me ever gours E. Durand

: My Dear Dortor,

There suffered much with my eyes this week past airs this whom has prevented me to wie - to you tooner . A esides , Leidy too make would write to you i we mediately and I hope he Jone d'one it. Your manuscript tous presented tweeday tim at the business meeting and every thing relating to your manuscript. has been Disposed off conformally to your dering : It will be printed wir i rumdistly and proof theets tant to you . You will have to get many extratopies printed, as Mescally has ofrend a great humber about to person who do not receive the proceeding. Asserved a few days ego aletter from our . old friend Ma Gay Whom I had requested to tour The question of my intention to give my herbarium My Conditions Were: that my herbarium Thouse remained departe and one of the I make

Thous remained deparate and one of the small rooms devoted to it, and also that it should be labelled Herbier - Durand desplante del'amor. Intentionale There were other tripling conditions

which are unimportant to me - But speciality and name . - These are the ditions Which learner Wave; and they are not accepted, under the plea That the herbaria of Justien and Tourniforture the only one that have retained that privilege I am not disposed to place my self on the Jame level with their great men , but I have not and brought forty years, at a great cost, to consent to have it seathered ento the gulphopa general herbarium, Araspecial Collection of agreat Country, extending from on ocean to the other and from the geolph of Mexico to the remolest tegion - I think mine is an excee · Dingly interisting sho, inferior only to going and or Torry said to the plants, about 700 engra vivige I nearly all their has been frublished to this day. I will steep it! Good by my dear dir believe un asever your E-Durand

Mon Cher Docteur,

de Vien de Vous Worener frar la port une Répis Complett de la grande couvre du prouvre P. Bo Buelley.

Jend you only one copy, because the lecond part and fort of the third err incorps -Lated in a number of 100 pages from Which ... I would have to Separate them. The end of the Third fourt begins the nest (or May) number Which the Academic has not yet received from The primar. But a package of 50 copies of The entire third part, having been dent to the Academy, address to Buelley, Vary suggested The propriety of opening the puckage and lather a Copy for you - Which he has done himself. I hould you insist for two copies, you that have them. I added He first from a stock of 4 Copies that B. presented to me.

Town leview With timmediately follow the third part of Auellley's new-species inthe May number, and this part Will be sont away to Europe and to Amer. Lubs cribers Without

loss of lime and by the first expedition (envolve)
Now, next monday, I will collect
for you call the Specimens of Bis new grass,
and send them to you.

Jon Jay that I will keep fifty copies for distribution. It is more than I know names to Jend them to. Give me a list of ell the American Botanists to whom you desire that Copies should be sent, I will do it for you with pleasure and so, you will have only the European part to dispose of.

The is the reason Why I say that I will begin, heart monday, to four aside Auckley's week grasses.

Sgreat hurry for the post-office. Tours affectionnulity

E. Durand

Hommages Essecturay a Madame.

Prof. A. Gray, Cambridge,

Deur Gray,

Contributions which you are good enough as to send me regularly. Really I am quita prow of your attentions to me and very fow of your correspondents could exhibit as many austrographs of you, as I loudd. It is more, I fear, Than I deserve: There Alph. Decandoles papers.

I have not been colleged for to Collect the street parts of Buelley's prepers, Wilhout breeking three resembers of the proceedings of the Academy. Except the first, B. has not distributed any Copies to his acquaintances. The 22 part I have not get, but I hope I shall beable to procure it from the printer and, When Complete, I will forward them to you.

The printer Sent me yesterday 50 copies of your notes on Buckley's new species. I have ready for Distribution in Pennsylvania alone thirty copies. The rest, I will send to your,

A Company of the Comp

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unless you let the Know to whom I should address them. It Louis, Louisville, Thio, de. give me the humes - It will be no great trouble to me to send them.

I Spend the Whole Day, gesterday, at the Academy 1200ms in Searching for Buckley; new grasses - I have all except three of Which I could find no truce Whatever; but I have found others marked by him as hew, which he has not problished. What Surprized me painfully, was to find . perhaps The greatest humber of them to begrasses, labelled by neutrall's own hand With his own homes, With Which Buelly herd only The trouble to Cron out Muttalli neme to Substitute his own. To Jay the leastof it, it was a very uncourteous and unseruper low act of Mr. Buelley Which I would not have expected from him.

Thurber hewing become a subscriber to the Academy Proceedings since Samuery lust, I have sent him my copy of B's 12 part, published in December, to as to Complete Buckley's prejoin

Now Some Emark, aportyour testes:
Parry's R.M & land;

your Parry's Sedunthod anthum is the Same
as one in my herb, Marked Rhodiola Eorea
Torr. Framout's R.M & Exp. D. I had marked it;

No!

Have you not made a mistable in calling 40.138 Cerastiam Vulgertin, Var. Behringi anum? Should it not be alpinum, Var. B.!.

Me 199, not mentioned in your enumeration, I consider as a slender form of 6 sytropic Lamberti. It it so?

Very Coedially gown, With respectful compliments to your lady

Deur Docteur,

Tong espren Stumps; but I have half a dozon friends after them and I do not dispair to get one or several for your young English friend-Only a little patience! I herewith forward you all I could get of Blood's dispatch; one City-post dispatch, end two stamps with the mild and pleasent efficy of Jef. Davis, which were given to me yesterday by a staff officer of our army, just irrived from fortress Monroe. If you look upon them with a frown, your british friend will not be sorry to receive a rainty.

The strangenmanica which rages cobroad as well as in our midst. You cond myself eve not more exiscions to acquire a vegetable hove species, than Certain people, there insignificant little stranger. Everytime I receive a freich stranger Cetter, some officer of the This. Post-office calls upon me to favor him with the stranging apparatus.

Chiacun son gout, sa folie! his hobby!

I have been, There lix Weesle, Working Very hard at the Academy, to arrange a new the herbarium, Which this carelan, and disorderly and claus y man, Buckley, has left in an anofal condition. Having a general Catalogue of all the North american plants /11blished to the day, and having marked on the margin Those which we contained in my herbarium - I have taken advantage of this new perusal of the Acad.'s herburium, to murk also what is there.

In both of them, I find a great number of . Nuttall's specimens Which have not been publish - ed or have been to under other names - and The species of also many others from different tources which I have not been able to make out, and am quite unable to make out on account of my bud eyes Which are, every day, becoming Weaker. I think it is a duty to you to examine Them and publish what is new and I have ho doubt that you many find many tech. It will be a great labor to hunt them out; but I could do it leasurely, When I replace What you have in hand. I am almost certain that I could fick out between one and two Thousand unknown to me and several hundred

perhaps wilknown to you. That I do it! I am very anseious to Know What this fine Primulacea no 311 of Parry - is? and the Lest -I understand that the Durance of Planchon had been placed in another gover and the place was now Vacant. If to, do not forget that, if botanical zeal in lieu of botanical science, is a title to something, I have aguired it. Durandea thould be Darandia, I think, and if you add the Christian hame, Elice -- Duranda Would be a Syllable Thorter Than Elix Duran

Very cordially yours

E. Durand

With respect to Mr Gray.

Peof. A. Gray, Cambridge.

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N. Control of the Con

Dear Doctor,

Treceived, Day before yesterday, your fewor dated 25th and yesterday the box of plants in good order. At to the last package I sent you, lag et aside until you have time to look at it. In Excurring ing The Academy's herbarium, Which the interesting Buckley had left in the greaters confusion [and This job took me two months] I have taken out and put aside all nuttalls specimens and others unknown of doubtful to me, to submit to you in proper times. I have Them at my house and intendedding to them The similar specimens of my own herbarium. all will be slept ready for you, whom you want them. I have no doubt that it will clear up many point and ed Some trew species to our present Catalogue.

Last right was the business meeting of the Academy. The assembly was very thin in Consequence of the estremely hot weather and because the medi--cal part of our members are almost all in Camp or inthe hospital. There was not heither

the Kind of people I wanted to pears your paper

through, Wilhout prave the refer to a committee.

The presentation of it was therefore port pond to the

next meeting. I regret it, but my broken eaglish

cloquence was not persuasive enough with an

essembly where my friends, the accostomed leaders,

were not present. As your first memoir on Buckley's

mistakes has kept people on their goard, a delay

of a few weeks will be of ho great consequence.

Your give it to him fairly and nothing more than

he deserves.

J'eccived yesterday a Cetter from our of friend Gay, who tells me that he has written or intends to write to you on the Jubject of the Goeter. It appears that thus far, among about the Specimens I have vent, all esecept one, according to Deveny, belongs to the Eigeria, even your Kennebeck forms. The esception is a specimen Collected by D'. Pickering on the Catskill mountains. Will you be so good as to direct the enclosed Cetter to D'. Pickering? I do no Know his residence.

There estready express to you my firm belief that our Wilmington, Darby & Rhodeisland

I soctes are not, as is generally believed, even by D' Engelmenn, Joseter Engelmenni, but only large form of reparie - Compare With your unique specimen of the Illino in plant end you will be convinced. I would not be surprized if the CutsKill Isoetes should prose to be an Engelmanni, from a hotof Durieux 15 Very LemenKable Isoster from the extraordinary Tize of its spores, tessembling much those of the liperia and lacestris; but 3 or 4 times larger than inthe first of thos species and surpassing in size all the Variations observable in the forms of the J. Cacustris He end Is: Plant to escamine when and parhaps as another trees species to introduce into the genus.

If to this characters, he had added the dilated base longer than broad - I would say: It is I. Engelmanni?

Thave nothing more to say except Goodbye!

& believe as ever your devoted & affectionate

E. Durand

Try to come to This Delphia, before my children return. Their 200 in in the only one I have to offer and I would like to have your and ledy for my quests.

Jear Du Gray,

Justice and to gow, Some days ago, What uniained of your remarks,

on Buckley's new species, 4 Copies of each. The others were duly distributed

convoy one Perinsylvania & Deleware Botanists.

Coor Buckley! - Thope you have cured him for ever of his incomitive

it ching for publishing hier general species.

In your last no of encountration of Rocky mountains plants, you

Vernant that my Kanean Pyrote chloraistic has been rightly suspected

Very near each other I see many variegate leave, in the letter; I must add that for the form of grandiflore for the letter; I must add that is excelly I see that first picta and grandiflore, something is and it to you to prove the fact; I way near each other I see many variegate leave, in the letter; I must add that, to very lately, I mistock grandiflore for Chlorentha in my herbarium. I see I see you to grandiflore, to ancertain Whether I said you also what I now lourider ? grandiflore, to ancertain Whether I aim right.

under the hame of superties, Nut.

About a year ago; M' I Lea, the president of our Acadomy, seceived a letter from his particular friend, Mous. Des Moulins, President of the Linneaux Society and agrecultural Society of Bowleaux - asking him Novine informations respecting the Vines and the Wines of this Country.

It has begged me to answer these gaines - and I did so, with as many details, as I could then obtain. I had both collections of Rapinergue and Lecoute's moriographs of the Amer. Vines, in which I found to russom to change your Vicus and mine respecting our horstein I peins - my letter to Mous. Desmoulins was read before the two abost voicities and clicity a Cours dereable interest and up the Vinicoles of the foronde.

so much so that I received hulf a dozen letters of further inquiries and even requests to send them some planter of our best cultivated varieties:

To one of my correspondants I sent 22 Varieties of our best; but to avoid ourswering so many letters, I and ertook to write a complete essay on the American Vidnes and wines to be published in the journal of the Acclimatation society, a publication of considerable circulation, which you may serhaps procure in Proston or Cambridge.

The occasion Seemed very favorable, as I had received specimens
from Do Lincecum of Jesces, with notes on the trees of that country,
and principally on the vines - and Buckley, in whom I had then great
confidence, had just arrived with other specimens. To both, Linsecum
and Puestly, I had previously written to procure me all possible informiction on the subject of the Texas Wines Hines.

With all these materials, I wrote a how monograph Withthe addition of three new grape- Vines of Texas - Which formed the first part of my nemoir. At I have not reserved any copy of the publication in the Journal of the Acctimatation Jociety, I send you herewith the rough refer of my paper, Which, of course, has been Journal aftered in the copy tent over.

What Duckley wrote about his hew Vines Was Carelisty and inaccurately copied from my manuscript. I protested against his V. Mustagensis, maintaining that it was the Candicans of Engelmann; but he said Engelmann had given no description of it and he was entitled to precedance. I wrote however to his Decaise, to whom I had addressed my manuscript, begging him to correct, and put V. landicans by instead of V. mustagensis; but he has neglected to do it.

With Cariboea, Neitt from arkains of Engalmann. Thave I com to

Specimens from Horida: Noth Candicans and Cariboea migh bestiere.

V. Monticola of Buckley is quite different from Enjestic of School. The latter is a small erect shrub, With short branches, tacemes creet, harrow and almost simple; the other a spreeding Vine Withlarge Compound racemes and resembling more small forms of cordate than any other species.

As to Buckley's V. Linsecurin, I believe it also to be a good species, who ressembling some forms of Labranca; but the latter has small & simple rucement, the other has compound racemen. The fruit bearing branches have strongly lobed leaves, which is not the lase with labrances

I think I send you my preciseeur if you Wish-although the best I have were sent to Me Desmoclies. My paper was published in the 1st of April, May end I was. No copie, have been sent to me, although Decaine promised me to claim my there of action. It it with some trouble and quitelately that I have been able to sent it with some trouble and quitelately that I have been able to sent it They have inverted the order of my Chapter, and introduced sent it mistakes. This subject of vines and Wines of 12. america has become to interesting to vine growers, at this time that the truck vines are more or less affected by the desease Didicing every year; and when a serious competition in the Commerce of Wine is in prospect, that Me des Monlins has thought proper to sewright a memoir on the subject for the Acts of the Lineau Society of Bordeaux, upon the materials of my own memoir and other importations that There furnished him in the Course of our correspond ance.

Very respectfully & cordially your, in great hurry

Mer hommager lespecturity à Madame,

I will and that my diagnosis for the Vines is The lacemes - if the leaves are Changester The Lacemes are not is

That to many thing, to tile you, when I sut down to write, that I may have forgotten limiting. Here is a note I find before me:

1" U Louicera dumora of Muttale (California) in my herb. Corresponds fretty well with its name-sake of Gray's P. Wright but the specimen is poor With small flowers attop; harrow and clougated corolla, Calyy tube hairy and clamy and Very escerted Stamina.

2d Tendleis Valeriana h 2 2 gls is punciflere rather than Tylvatica.?

With compliments i expectful to your lady I remain Very Cordially yours.

1210 4

hund

My dear D' Grey, There in istend your lust letter; it is either in my room as the Amderny, or in one of my coats pockets; but I know What the intention was and I have aside for you all the Astragalese of Nuttall, Which I will disputel Immediately by Adams' Express. I will send with them the entire det of the Jame genera from my herbarium, in which you Will find the same plants of neutral and perhaps more. If the Academy specimen proves incomplete, Descendi may prove better, and Vice Versa. For may also find Ismething gueer in mine, or some correction to make, and if any little day licate be desirable, you can help yourself and even replace, if convenient, by other little duplicate Superfluous in your great herbarium. Thave added the, · also, very perplexing genus Horackia, which I beg you

My large flowered specimen of Tyrola you allude to in your letter is not from Greenland, but, Ibelieve, from the Pine- wood, of N. Jersey: I sent it to you to ascertain Whether it was your grandiflora. It is what I have long been in the habit to call chlorautha I have I seen only lately the Memoir of 5- Hooker on the distribution of arctic plants. It is a capital paper

Which has been of great use to me for adding on my general Catalogue the tange of many species and placing and a the same cover the synonymous species which he has writed to gether. I have a great mind to submit to him the doubtful species of Kane's collection, Especially those of Druba, sasi-fraya, salix and my variety of Ranumulus aquations which I think interesting, although a very poor specimen If you approuve of it, I hall do it and, With your fermision, I shall use your name as an introduction to that great man.

I feel highly indebted to you for it. It has enabled me to clear
the obscarity hovering over the three species of conothera, albicantis,
primarifica and coronopifolia. The first I had deparated
from the others on account of it very long and linear capsula,
and I intended to write to you about it. The two others, I had
under the same cover with the hote probably two species?"
but I had not been able to see, in one, the englanded obscordate
fretals and, in the other, the hairy throat of the cally & hor the
caracter of the deeds. My speciments were too imperfect.
I am glad that De Englance has solved the difficulty. I
from all the forms designated by De l. I will now clear
up the Caffileja and Mertausia.

There been issorting very hard in recopying my general cutalogue of all the n. am. plant that have been published to this day. I had so many additions

and corrections in the OW copy that it required a new operation. As I go along, I take grown after grown in my herbarium and pass it over With Care, Correcting and concentrating as I go. It is a greater work than you might think and 2 or 3 pages of the large Commercial leger form is all I can accomplish in one day hard labor. When this is I one, if the Ulmighty permits, I will te-label my herb. With I guorysus, Vall.

When you have done with the plants I have sent to gou, you will return them together; but, I beseech you, do not do it without booking over (and noting) the polemoniaceae, solani case and other families which I sent you 2023 months ago. I shall not want them before I annary. If you cannot enlighten me fally, doit at least to the extent of your present ability. There are two genera of a moderate extent of which I have not a single specimen, They are Drymaria & Perystill have you any spare specimen, They are Drymaria & Perystill have you any spare specimen of only a species of each.

My Means Will not parenit me, I am afraid, to buy a Set of Perry & Hall's plants; but I would Willingly pay a double price for those that were not in the less year collection. I am making an effort to have our academy to subscribe to a full set. If I succeed, as I give there all my duplicate, I may find Obtroes in return. I send you a small package Which good old Me Gay gave my son foryou, but, as you will see, my son hid to break the Seal to enter it.

Your favor of 2 6 alterior and box of plants and drewed to the Phil. Acadeeny herebeen duly received, I am Torry to say that the box her not arrived safe and sound. Far from it: Constructed as it was of West materials, Tearcely thicker than an ordinary tagar - bay, it has been broken on the way and petched up to as to arrive here in a mirerable condition. Thecimens have been din persed out of their respective theet and some may have been lost. I apprehend a great difficulty and, likely, The necessity of recurring to Prof. Gray's assistance to fix each specimen to its inspective humber, in as much as the humbers have been hastily marked with premiel and many of Them Scuredy legible on the Ciarre brown paper that has been tired.

There looked over them carrorily: The generality of Meetinen are good and in Englicate, but there are tricing lingle and within timefficient. The numbers lable ought to have been affined to their respective types. So that to July that trouble lettre purchaser. Uponthelwhole I legan to Jay that the merchantable genetice has not been attended by you with the ordinary care that I have inferiorably found in the collections of Tender, Lindheimer, Wright, Parry & others

(follow epologies for the Scotling.)
(Enter hour) I think Me Hall might reduce the price for 2. cens

My dear Doctor, I have, I am afraid, a long letter to Write: 1st Prof. During Wrote to me in extenso ayou all the specimen of 11. american Isoète, I had Sent him. Our Wilmington & Darby Trecimens he found to enswer Breenin description of Coandwin Jei pores reticules-forcoles, sa double lique, to Mais, (I'en revieus à mes montous) spar Goet, is Engelmanni, The Engelmanni of Illinois, Which I saw in your herbarium, is a different Trecies and has ceased to be Engelmannie. The spices may be wille late The other habits are different - the cells appeared to me much larger and of a different configuration - The basa, the leaves, &c. are also different.

A specimen from Catillist's mountains, borrowed from the Academy's herb. Was found by I wricing to be different from all the other specimens, but it was small and, as customary, too much pressed, and he daied not as the Knife freely for fear of destroying it. To ine this specimen appears to belong to the Illinois plant.

Aspeciance from Clinton Co! Pennylvanites also belong to Engelsnamie and I have hodoubt That The large fellow which Porter sent to you is also the same. So aspece from Rhode Island.

All the specimen of Delaware, Lehigh, Racitor, interior of Peans and, I believe, ca Manachemette Specimen, &c. belong to Riparda.

The Men Hamphire Specimen furnished by your herbarium, were too young und too much pressed to be preperly analysed, buthe Impacts them to be the European I. lacentris and this point he desires very much to as cortain, an extremely interesting in a Bot geographical point of View. How, my dear gray, you Travelequaintances in that american Switzerland, Could you not write to them & farmish Durienx With good Specimens, attested in Aug to Dept. and not pressed too much, if etall.

now to Hall I plants - I enclose copy of the letter I have just Written to him, by Which you will see that I have no reasemto befully satisfied. We failled, at the last meeting, Leidy & myself, to her - Them purchased by the Acadering, but we hope, this evening

to succeed in raining a subscription and catale events, I will take them myself alshough 1002 -By the reduction of rent and Southern Stock

As to the Copy of new genera, the Library Committee have no funds disposible, we Will have to recur to a subscription, Which Will be done when we have previded for the purchase of Rocky mitfilants.

I have just finished an auguljob_tri entering in my Catalogue The gener Carex -I have, With the arctic & transmissinipian Ipaces, 221 Species entered - Of there I have 134 species and 21 varieties in my herburium, ter ised by Prof. Dervey.

Ch! ing poor Eyes -!

Respects to your lady & believe me us ever Jours EDurand

The addition of Parry's plant Will, of Course, be addressed to me with the parcels of my plants you have in hands. It all's Plust, have been put up. With so little care that I will be permitted to Verify them before payment

Dear Gray,

I received, this morning, your favor of saturdays I regret bitterly that you have not been able to execute your intention to visit hew York and Surely not perhaps) Philad elphia pluring your Winter vacation, I hope you will not fail, next Jummer, to pay hum a visit, I want you to see my herbariam of the cetatoque I have been working since 6 or 8 months.

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It was framed as eminder to my 80 curtoons, to and find out once what I wanted to see, as well as to Know, at a twinkling, what I had and what I had not. It looks so neat and so orderly that some of my friends of the Philosophical society wage me to publish it in the transactions. It is a freely extensive work, filling up, over 300 pages of a large commercial legal of 48 times to the page. atthough, probably, containing some errors or minplacements, it is, I think, upon the Whole as accountate as any such works, think player that you reasons for not publishing it.

Baird Spoke to me whoat the great want of a general catalogue of all the North Am, plant that had been published to this day. I recommended him Thurber

& an eigreement mude between them. For thrugeur, have elayed and nothing has been seen of Thurber's Catalogue raisonne - no morethan his monograph of Ormerican graminos. What does this wear? It it lazinen or what else! Betweenen, I am quite meany about him. Thave thown him Since he was attapprenticulo the pharmacentical business and always felt much regard for him, but really I begin to feel anewy about his turdiness for refusing to give to the This is one of my reasons is the pother of correcting proofs thects Withing poor Weak eyes, and, besides, I would not publish it Without Submitting it to you per Whithout your fuller approba tion. It is deffective in our sense at least . I have timply giventhe heren, of westworn without mentioning, the little of their Words, but the might be repaired by entro ducing in way of perface we the works we country to the Study of literarican plants. There gives the principal I groupes and localities.

Now let in go bast to the Rolly M's Collection. I have overlooked it Carefully. There are some fine specimens and sometimes a superfluity of duplicates (in very rare instances) but more than one half and perhaps

fifty are of the pourest sort. I do not believe the collection he has sont the Academy is differe toward from these those he has sold to a hundred, escape in those circular where he has throwwin a superfluity of duplicates, which add very little to the interest of such a collection.

That yesterday a letter from Englemann, asking the sound specimen, of Muttall's sines &c. He says among other things: You have no doubt subscribe to statis R. In 5 Collection that is offered for the cheapprice of \$6. 1. hundred. Though heavy species are rushed poor, a great many core valuable and wileplease you - Some are new. Mi-lamby of Wilmington has also a set at \$10. It has been a great mintall to have two prices, affecting my tase particularly as the Collection deceived by the Academy has come through me.

Jofar, 40 Dollar, have been subscribe and you may draw exportment for the Whole emount peryable in green backs. There have not been as much difflacement as I apprehended, forther, 2002 25- Those I cannot make out, I will send them to you. I engage to pay the balance, if the whole was not subscribe - (15675)

Very Cordially as ever your friend

Dear Gray,

I shall hot enter into competition With Thurber, for calalogue, be sure of it: I have too huch regard for him and feel satisfied that his work with be more complete and accurate than mine, having had Dr. Forrey's library & herbarium at his disposal and the advices of both you & Jorrey. Moreover, I consider Thurber's catalogue, in the way It is made, Which he communicated to me, as the troublesome part of the New Horn of M. Am. Which we call esqueet from you I hortty. But if This ber had not beingoing on With his job, my catalogue, with freshaps its imperfections, would have been better than no ne at all.

The Subscription to Hall, Collection Jeems to be at a Dead Stand (# 40). A new but unsuccessful appeal to the generosity of the Members Was made, at the last meeting, by De Leidy. The meeting was scanty on account of heavy East Thus to Selle the matter at once (matter impleas and to me and to you) Draw on me for # 45: and we will keep the collection We have now on hand. Thould I have to add the #5, from my own pourse

The same of the sa

to produce the week in a fitter that or the court of the

The second of th

to The five which I have alreedy subscribe, it Will not be fraying too much the pleasure I Will have in Dispensing them into the body of The Academy's herbarium Which has been my work and is almost enequally downtome as my own, Does this answer you?

. I regret that you have not forwarded your manuscript in time to have been presented at The last meeting. The next is the business meeting and, according to rules; the paper camot be presented and accepted the same evening. Seid it, notwitte-Standing, We Will try to passit Through, as we Did your paper on Mackley's Trew spoiser. If we do not succeed, it will remain one mout and then the gramineoe Will, I hope, beicedy and The Whole paper printed at once.

very sincèrely yours C. Regiened. D. E. Durand

I have just seen Leidy who has informed me That I Dollars more had been subscribed - This change my ideas .. Send all you can of Parry's plants to make up 56. and and to the package What you luce of my own plants, enveloped deparately with my have on - hodren the Whole to the Accidency

Copy from Dr Engelmann's letter wout Isocles

11 There years ago given to Prof. Gray curefuldes cription of the localities of both Isoeles; but no body Jeens to have guthered them. I will repeat to you the Date, perhaps you may find some body who will mutathe tour of the whote and Franconia not in the fall, Who would devote half on hour telhe trouble to gester this Subaquetic - for I. lucustin grows quito hand er the surface, not little the others halfin the Water is, a Echo-Laste is in the Franconia Mountains here The Well Known Prospect-House (bear Which is also Prospect Lake Which undoubtedly Contains the Januflant) Opposite the perjudicular Cliff Which forms the Echo, is a little wooden Wharff, and to the left of this, 15 to 30 It you from it, I found the plant in the lake bottom, Whence it might be gathered with a reste. 11

It will be good to give the above description to Mr. W. Boott Who, do you say in apreceding letter) intends, heset Jummer, to hant for the N. Hampohir Isoeter.

hours. E.D

I do not thow whather the Academy has received the first 40 of this publication, as forme I have not:

me your much indetted and warm friend.

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E. Durand

Dear Gray,

of plants, manuscript, &c. The latter will be presented to morrow to the Academy and reported upon at the last meeting of the mouth to be printed immediately. Your lintractions about types will be attended to and if you wish, I will correct the first proof and send you the next for revision.

Jam trunch indebted to you for your rare

Genera. If you will third of the in the summer and dry

Joine more specimen from your garden of the other genera

wanting in my collection, you will accomplish a very

meritorious act toward the science, as my horbarium

(which is still far off thopse)

Will go after my death (which is not far off to

Me Hall has responded to my scolling with a most obliging note, Sending me cell the specimens of the Himin I socter which he had on hand. This plant grows in his own meadow in two different forms: A small one, covered with water in the spring, but left dry later; and a larger one growing in deep water. There are the true I. Engelmannia and no mitable! As to our Wilmington plant, it may be in part (asto micro & marro sprover) Similar to the Illionois plant; but in every thing

clie, it delper, entirely fromit.

That is that the Newport [R.J.) Isoëles is to of the Than the Horida I flacide of Shutten orth. What Do you say to that! Why would not the equation follow the example of several other plant emineuty southern, Which pay as, Northerners, a visit along the coast?

have seen (bor 8) have avery small stock with long sleeder leaves and cells small than bur Wilmong ton Isoelei - The microscopical investigation I leave to better eyes than mine.

I had specimen of that plant from Thurber, some 150120 years eigo, and Prof. Bridges gusthered the same at Newport, 2023 summers ago. Shall I askhim a Description of the locality, and send it to you! serhaps yourself or some of gour friends Visit

I sent to During Specimens of an aquatic plant which I found, in the Academy her barium, labelled I socter, I lorida. It appeared to me Very queer hock, as it had no tubers, but simply a stem starting from a blent base funished with Capillary roots It had no spilles Whatever, nothing but the leaves. Swing wrote to me that it was a caperacie, most likely,

as he had found seeds (attached to thoselong leaver, 2-3 feet long. I have a plant in my herbarum labelled Scirpus, Charleston S. C. B. D. Green, Which might be the same plant; the Certain injust 2 of feet long with a terminal spilled. It was mixed with the Seize with a Cerminal spilled. It was mixed with the Seize was substantial in my herb. but it might be bleocharin clongata of Chapman. I am not able to make the Difference, I haver fraid attention to this

Thave looked over the plant of Parry - They wile Jurily supplement the 25 wantinger Hell's lot and the poor specimens. The parlage for me is also in good condition. I am ready at any time for your draft with many Thanks. I wrote 5 Canby that I had a package for him. Heis in This elphia almost every tweeday at the Meeting of the Academy, Wenther persuiting. I have received your copies of Henton Wrightiance & Cuba orientali. The copy destined to the Head. Will be presented to morrow. I thank you for that you present to me , but I will tell you freudly That I am ready to return it to you. You may dispose of it to more Worthy friend, then my self of such a present: Jam exclusively interested in M. Ameri-Can plant who my eyes are to bad that I devoto them exclusively to the thirdy of our own plants

Dear Doctor

No. of the State o I have just received a note from E. Hall, Leguesting me to secure for him, est liest, fifty copies of your enumeration of his K. Who plants. Are those 50 copies to be additional to your 200, or are they to be suclaided in The Catter humber! I have Seen the printer a few hours ago - He pretends that you ordered only 175 copies and has this number of the two first theets uside for you, To which The could take ten more of a supplementary number always printed over the humber requi-Led for the Acadesing. Thousand you insist ou having 200 or 250 Copies, he will regarint, without cost, the 2 first pages of which the form may be broken, so as to satisfy you as to number. You Know that the Academy allows the author leventy copies. My short paper on the collection of arctic plants follows immediately yours, That I Send you a few copies for sich of your Correspondents as may be interested on the Subject - I will send you the revise, that you may judge if it is worthy to be sent abroad.

deckey in the See that all

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you cannot resist gently rapping Desmon lives over the Muncles, Do it gently I pray you, in consideration of me and of his great friend Mª I same Lea. I wrote to him, reprove ing gently his indiscretion and controversing Jeveral of his views. He is old Have, merey for him.

Our Buelley has been here to receive The last breette of his wife - a most accomplished young ludy and colmost a Child of mine. The courtship had gone one Without my Knowledge and even with deffence that I would be i'm any way, impormed of it the foot - I would almost Jay the Knave, but I prefor saying the I'mbecile, married her Without riflecting whether he was able to Support her - He had nothing but Debto who she has supported him from hertitle precurity means and the pawning of her jewells and drines. Her health was bid, her miled rather Deranged and eifter every sort of miseries men tel and physical, The has returned to her grand mother and friends to dge among them. The had procured him of late an office in the conv alexent hospital est Again Creek. He was Very truck estracted to her and had, otherwise

every Hind of attention for hor. The never exprend a word of Complaint against him. Buckley is not a bad man, but he taked. Inited, vain and a true child without jugement nor-Common Jense.

Evergours E. Durand

a tonget sext year if I live , will will Hoping that your worth Will inform so tros of the Entire Excovery of Min Gray and of the Continued good health of your self out sint of beanain Frucerity youth in for colingent of Bay Torrey, Caton, Porter, Porter, Porter, Porter, Self, and 3 or 4 more for bistribution. , proceed bout frant a practical or attention sto our there parthem Vivery Ation rothing to cold to, or intract from What I have this about of true wood in with not prove to be that which Engleman had once haved microspose. but I E has relieved him of that fear. Hifor me, am confident that the Hill's tooker of the Jame I have seen in hour horbarous, labelled de lugelemanne. With these Illiners plants, I will send them. Jourse J. Poplarie, from thirty Lelevine and Lebigh - 3 spec. of to sugar menum from Line contes Courty Poster - inter any of your botamisty Men's Booth! Turkermen the home collected in Minister, M. Hampshire, Vermen leng of the dayined drecting you might send them to me to be added to my puckage, leave may from other things, to be son to by consum. I hope this will be the least 120 the Wilt Isailer lacops that of colores mit which I this the

Jacks up 5 pt is something Sept 1517, 1863 ... the west to en a trupe timately for them, both on going apageing the eather was held to Hong absence from home (to months) has prevented one to acknowledge the receipt, by Mis James, of your last letter accompanying The Itrojeton then, Denbus, Hooker & Benthum's genera, The latter han been retained by the Hadeny wand with pag your franker billion to start This is took very wiscion to hear of My gray I healt which Me James to to me was much devenged all Where the left Carribridge at sat Just of part shad a good deal on hur travelling over The Eastern alleghongs with good results in betanical Collections Nothing new however, In concept localities and Hor five species not get found vin Tennsylvania. I here given Porter a fell list of them for his intended Catalogue. My second voyage his been to western 92. York. Amy your palobject was the Cetiste um &, in I earch of an Isocles, the trongue specimen of to torch in The treaderny therbarien, I had sent to our Isocler mud Frenchmen, Who Strongly I us ject it to be when species, with reticulated spore, so barger than in any other species . but they are that fully settifed about it as; beday a borrow Toist zasinionie

Speciania, the Jand not damage it by repeated luceration. Unportunately for them, both on going and returning, the catalik was shutt to in the messenger from the hotel announced that in was over Exomed and could not accom - mod sterang more. This Tend surphy a remail sous a lotte pushed on to Nagara Which I had Avor ger variet, und, hence, to brenten falls, Jull of hopes that the crowd have diminished IN and we cook sent Certilist without difficulty. I will give you herewith a list of the most interest ing plants we met in Ningwin & Benton talls-Only far tocality lake. Attinos take were Known to the at first tight with they when hever between the Covery States of Issue to There excursion Were made With anold softward of mine, lettered from business, on a . Ip lease I estate half a mile from Bethlehem Mot When he & bought that property I singed him to study botany on a preventive of Emmis At her followed my advice and is how an enthousinstic and export bottomist, Satisfied that time Will never lie heavy on him there Joint one month at Betheren, englowing With his and the concerting around and and by numerous we thew plants to the telring tich historias - of Mousieur Mot.

Now, my dear gray, let us litario once more to the newor the sing Chapter Vocate 10 I beien did yesterday from & Helle aprovision of them to a during octers in adoption about 30 in who will beautiful. I have to'd usede too for each of Diggay, Torrey, Caton, Porter, It enderry, Jeff, and 3 or 4 more for distribution. in she cost, dos at 15; I will soul to faydourient, for themselver and to vierpondents As fagha, baje ter est the with the trained of Introducionale. He was olouty pot for alline birether of the of not prove to be that which Engleman had once named microspora! But DE E. has relieve him of that feur. As for me, I am Confident That This Hall's I's vites is the same I have seen in your herbarium, labelled I. Engelmanni. With these Illinous plants, I will send them some 1. Tiparia, fromtivers Deleware and Lehigh - 3 spec. of I. Engelmani from Lancaster County, Porter - and if any of your botanists, Men's Boott! Tuckerman & c. have collected in Maine, N. Hampshire, Vermon any of the desired Isoclar, you might send them to me to be added to my puckage, large enough from other things, to be sent by express. I hope this will be the last poster With I soiles _ Except that of CertaRile Into Which I Shall try

Dear Gray,

Tou ask a prompt answer to your Kind offer to use your influence to procure to our Academy the I plendid herbasing of the late D. Short- Here it is:

Be sure that it Will be accepted With our Warm thanks to you; suitable Shelves Construct ed for it between the general & M. Commiscen prairie and all provible attention to its preserver - Vation in good order, ad usum Studentium.

I now speak only in the name of D'Leidy and my own. Hear tweeday the proposition Will be made by us, at the business meeting of the Academy and, and outtedly Cheerfully accepted, as I say above With many thanks to you.

Botany has never been better cultivated that it is now by the Mumbers of the Philad. Academy of Med Sciences.

Ever gown E. Durend

Trenton Fary Steeptopus anylunifotinations confusad Chritophyllumis - staring wasto to Coptes s'adopennos do los comos de la como d Acer spicata d'esmoglibration las Plates pour latradoit l'original asingromes also in Carloptain playing but but ma plant chisinform! Very Common Historium gracilia!! butte front My privilesson Goldinsonner ! Per es septemble !

Astragalus

Viva. Filentia terro. trovoloraums. Eners et was hyperiale Variagations! finding the state of the state The lacera lacemore, Stolicota, 3 for or 2 fol. Persontes la wing i 403 a. Logica contogeneous ! Reputies acestilates. Testhe to son grand of plasters Electrons ! of when on 188 is applying leaven to 2 I to the trans. Sugar Carafara de cut Viagare

Awagine animod mingrand Polymuia Canaderins, whose assisted By a integrification was it insister forth Campianale Comercane ()) sissof Euphorbia platy phylle to was sty sotet. helioscopia? I might say! Astragalus Canadeusis! in fruit

A. Cooper of Which I send a bit - he flow or hor fruit Monarda Chinopodia, Will. Distinct enough from hister to se made wariety. It is starting fortalous. Thepherdia canadonnis! entresuly common I quepo ho ri caspus tacemoins - Somul form Helenium --- perhaps a form of autumnale Witt long narrow lance of the Leven, appearent by different, a single spec. Which I'k son you Arctostaphyllos wa wai! Whirlpool L'atris Cylindraceus! 80 Astre novoe anglice! de Echinospermum leppula : 00 Olderdandia purpures, Var. Ciliolata! de Imilacina Itelleta! Comandra unobellata! Common Galium Correle: goats Island Cirsium discolor! " " arrense! a peste Geranium Zobertianum! Clintonia borestis! in fruit

Thuspi'um barbinode in front Louicera grata Printer fruits simulat Hypericum Kalmananingisponis signi Lobelia Kalman or Neutrallie, rether the figet Lithus permen in his hiramor canera They'a Gice dentalis in the por many in the James bacceta Nar. am. Ribes c'usbasto, very corumon con fost Island

Tirocycum, androromis foliam !in fruit

Joseph Maccop by Municipal Allers

Goodgera Up en s

Goodgera Up en s

Gother Commun to the strict the Heleson tess to the standers of lower of anterior scale to the to the long readers of lance of late lawyers appearing to for the last of the total standard of the last of the Fredoria phyllos 1100 cm ! Minispost Licition Cylindraceurs! 30 More novacione of Ecopolis Signamican beginseda to Made de les de de la felor es de la fille de la se de de de Theile wine Felicita! Constant in term boll with common Goldme Equale Garter Glass Corrier Tracolos! " ilespense in justice Geam briess ? obartioners Clientonia borealis! in front

Tenton Tall Coryles certratory and quest , against. At ctoca Spicara _ albantrabra Campanula 20timos folia 1500 Acer spicesture of staring with Galeops is tetrahit! Which I found also in the alleganis, out Tobihanne Cystopleses fragiles! Only one plant bullifere! Very Common Allosurus gracilis! both fronds Hopidium Goldianum ! marginale! sudapartet spinulosum! Var. dilectation noveboracuse! Equisetum hyemale Variegaturn! fullting to care procenties Imilacena Eucemora, Stolleta, 3 fot. de Efol. Provantes langinosa! 20'zia l'atogerroma! Hepatica acutiloba! Tillium grandiflorum erectum! Gener Macrogshyllum or Striction! Same Conferce as at Niagara

Prof. Asa Gray, Cambridge

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... How do you do, my very laborious friend? How do the puzzling Astragali do? As for me, I do nor do at all, I feet extremely fittigued, just returning On foot from a hew Isoeler-locality, 4 miles from Canaden On the Attaite city Rik: Thereadsocter wrothe largest fellows at The root that I have Jew 1 /4 thick deameter. They may be the same as our Pennylvania & Dalan are friends; but the leaves are Shorter, Stouter and more about the beise Wider their long At to the Spores, I can say nothing about, my eyes and glan do not for mit it. I sent a specimen, 2 weeks ago, to Duricuy. Which Species and had been given to ma by Propoleidy, the discovered of this new locality. There somewide for your those that were in deep water; had then leaves spread flat on the ground forming a beautiful Losette from 8-10 inches in diameter. Those in Shallow wester, were elemost erect and ince flutter.

Jou Will take in the Proceedings of our Acadeing for out.

That I have denounced the humbing Am. Tea Company,

Who announce to the public that they have discovered

in the triountains of Pennsylvativa the true Thee

Chinearis, growing indegenously, lexuriantly and abundantly. Whilst in, poor blind botanists, we have never

I cen it. By Steeping that tea in boiling Water, Spreading

and pasting the frequents upon paper and Doing the

Jame With generical Chinalea, There proved that they were different from each other and their trushy Cemerican tew was nothing more than the old revolutionary Jersey tea.

old revolutionary. Tersey tea. Good Mr Canby has brought me my share of his Eastern Thora of Maryland Collection. There recognized at once the colony maritime, Muhl -Which Dr Fickering Collected in the Same District, Jonne 25 years ego, and of Which I had only asmall branch of 5 leaves, Without flowers nor fruit . I thows him also the figure of the Same in Nuttallivylow; mide apon the unique specimen now in the general hirl. of the aced eny. Asto his Desmodium Ochrolewan, Civitis, I resorted to my herb. and the Aced Herbariante Ice if I could not find the like. nothing in mine; ... but in that of the Academy I found, Under thelable 2. humifinum, 3. different specimens. 135 Desmodium humifusum, Muhl: N. England; in De Bigelow Writing, I believe - With quire! and answered Jes! 3. (Meaning Buchen, Colliens.) But it has nothing stipular for looks more like or glabrous speciment Viri Diplong 2d Evidently decumbent Leaves Very mach like of Delieve. Those of Cemby's speciences - marked Salam . Hand withy 3d Aspecimen of Neutrale (mirarable analchist pecomous) . Without flowers nor legions, Scarcely more than esfew top bear is but also evidently decambent, marked at first heris cores rotundifolium, although the leaves

Stem hispid and the few apper leaves remaining, also like those of Carely's Spice. 1-243 have conspicuous broad Itipules. I would not be astonished if Do humifus and B. Ochroleacum Should prove to be therause.

But a hour important discovery: In the Acad. Horbe Was a Specimen labelled, if I recollect right, by Dr. Forrey D. Scaberriman, Ell. Alabama. beautiful specimens with the imperior stem-leaves simple - Evidently the D. Floridamen of Chepman! Who refers the Scaberina of Ellist to D. Camercem, Dr.

The Scirpus of Cauby is most likely a new spices - holting like it in our Thidad alphic herbaria, and this a carious one.

The treasurer for the special fund for the purchase of hear books having been absent for some months, I have not been paid as yet for the hear genera; nor have I paid the bill of the printer, but it riale light and in the lower of hear week all willbe settled.

Have you an auswer from D'Short's heirs? I fear that our Curaton have been too much hurried. They have already disposed shelves &c. for that herbarium. Considering it as already aequired.

Your, Very Cordially With respect to your lady

! Think you are rong in your incural to say that I humifurum ranculles I . Eclandifoldense

Philadelphia, Nov. 27 12/1863.

Prof. Asu Gray, Cambridge.

My dear Doctor,

It was communicated, last tweeday, to the Academy and received With expressions of gratitude to the Family end to yourself. I might have returned it sooner, had I not been so brug upon the arrangement of Several genera in my herbardun Had I been present at the last meeting, I (vould have found the letter of M. I W. Short, which had been address to me there. His letter is a confirmation that the family place at the Disposal of the Acadeing all the herbarium and puckages of plants left by their lumented parent. We are tusting I tem for having it forwarded to us With artitle trouble to the family as possible.

When I have finished the present operations of Cleaning, relabelling, the my herbariane, I will begin another, that of putting aside.

Jecimen of Nattall's plants not noticed in your publications and Others from Collins' herbarium and also from Le Conte's & I. Read herbaria, Which you may not have had the chance to see. I believe I may add 50 species to Chapman's flora.

I will do the same With the herbarium of the Academy and with that of D' Short, when we have it. I intend to lay aside for your inspection every speedment that to me with appear new or doubtfulls

for the complete restoration of her health I remain your devoted friend de

E Duraud

i upon Artragala formar proceedings

as a will suffer apart of grand far with to some

a fire of and the year to a second of the second " . s Corners ... Le che de suis I le collect in in water and of end of such the

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the state of the s a proper to the all and there is a state to me.

By any means, my down Gray Jend any thing you like to publish in the Proceeding, of our Academy, We Will be happy un prow to have your seems among those of the contributors. I have no doubt that I may raise a Subscription among the sounders for a suite of M Halls plant - If not I wire talle it myself; although in great district from our pin a ci al embarres -Jement and low of Stork control

Ma Canby, Who has freed from a friend who was seen them, that those franti were beautiful has ordered a set for what he frage only # 6. .. a hundred . I seeme we stand they more.

As to the copy of hew general plentarion by Bentham & Harton Say hothing how about the possibility of whirehave by the Academy. I have not been able so fear to see the Committee of the library - As forme decidedly fam too poor how. But what is this heing enera Plentarion? Is it to Continuation of Decardole, " Jone thing like Walpar . How an Maistrate genera litte yours? The our the general botany

can genera? At ale event, from two tree botands,

This is all I have to say for indeed I am afraid to be a very troublesome Correspondent to one so busy as you are -

There not many your here publications.

What I couridered to potamogeton deusum. There abundance of it in my herbardun. It is certainly host American but I could not try for the ber frem it it is muched only Pennsylvania. I do not recalled to have Collected Water plants anythere the but in The Liver Lehigh When Jones 20 or 25 ig can ago My family used to Spend the Summer attacket hem - Oz in the ditches of the low grounds along The Johny Will & Delaw are I am Strongly Cayores - 1ed Hite form it about the Phil Hun home a make fitace from the bridge on the right bank of the Achaptille I paid little extraction toil

I will request our young lotanists to look for it heart year.

Planch! it is an anachuris the Stemmi nor certiculaled - but the leaves are so wide - tous my hoor eyes commot see any flowers nor fruit. It looks however very much little the P. deminer Which is so commonice Europe and I recollect were. I immersed it is water and I seedlect were.

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he see a land was the order

and the second of the second

Mon Cher Gray?

of Attragali, Horackive, &c. to acknowledge it, and animer your letters of 1'd 10 trains.

allieght and safe! but I regist that you look upon yourself the copeuse of transportations: I do not like that It is not allogether for your gratification, but for mine especially, that I what to you my plants and you ought not like to you my plants and you ought not to incer any expense for this selfish act of this will get med, if it happine again.

Is that a Scolding?

Jour monegraph of Hasackine Will be
presented tomorrow to the Academy I see with

pride that both At Hearmanni & Lastyroides

have been Estained. They do not belong to Jurend

colones but to B. Affilgard. These made the

Conscion on your Mist.

The worst cow in the head, I ever had I could the worst could in the head, I ever had I could scarcely east or driest for want of breath.

I feel rather better to day. But it has not prevent

-ed me from Worsting hard at cleaning,

Now Dear Gray, you have a warning! Do not where your eges any longer - hot only your eyes; but your brain. You are young in years, is health and Vigor, although old in Kinowledge lepertation and honors Whig should you work to hard, you have I withing to gainly it of therefore do your work gently, leasurely and do not expedite in 6 me week What others, more regrowille, in gour place would do in one or two months If your eyes here been your strongest organs, more have been my weathest lense, and I have a great experience With Weak, fatigue and sore eyes - Which I will communicate to you. The great end surest remedies are restil light and air - avoid applications of Collyria &c. I repeat: for inflammation of The eyes Light and air arethe most effice .. Cour lemedier : qui mi sit mapair oit Now let we say good higher to you take more care of your eyes and health and Leceive, before hand, my test Chriman Wisher, sectional inter Many of others. Governing singerely is really it in 4200. The present lot " (ob Derand)

My uspects and best Wisher to Madame

Letabelling and Jecuring Specimen With bands of praper te. I have corrected mintakes and added, en parant many hoter and remarks Which I will, here after, Tubinisto you. There also found some new thinks, I believe, and recovered several doubted species that have not been found tonce then fort discovery. I will mustion here a few that I recollect: v. album, Ph 15t Vaccini um elevatum Bankos sol, a Well characterized specimen from Savannah, Whice I found wised with V. Stamine um In another Theat I found a Specimen of Nuttake, labelled Velevature Which is hathing more than C. Stam With White flowers. I believe I have also recovered the Tinguicula acutifolia of Micheny, in a Labra dor Specimen swarked by Le Conte, l. Vulgaries Michaey Law only the Jeed, I have the flower, ? which has a blent speer quite different from Yulyer Jan Jay With almost certainty their Physostegice Imbricator Benth Popers flore, Nutt. It wothing more than Brazoria trancata So. Se. In looking over your and other botanical publications to have their bound together, I could not find your monograph of games Tenterion. Could you pro cure me wisther copy I presented, at the last meeting of the teadeny two beautiful cones of Pinus excelsa, from

the farm of my friend Auguste Fiot, hear Bethlehem This fine tree is very common in our newsery gardens, but hone has as yet given fruits des you observe in Manual However, my friend, in a Visto Ni Landrett had the pleasure to show here to small lones on one of his trees. Mr J. has two trees of 1. excelia - One had 39 Comes from 6 to Hind Louis I have two aside for you. The other tree letthough triore Vigorous has given no fruits The fruiting of Mis I's Pine may be owing to the mountain air of the locality their 2.02300 feet higher than the Lehigh. It is customary with the Amer Shilosophical Society to have an obitumy notice of the deseased Member, prepared and read beforethe Jociety. This, I believe, has not been done for De short and upon inquiry and a negative courser, linted) to propose the reading of your whole hotice, printed Sutto deay he of the Am I of livere I have however, been provented from doing it by your demouncement that D' Thorts herb. Was offered, by a wire bequest, to the custody of the smithsoulan I ustitution! Not being able to explain the liberar transfer made to the Shit adelphia Acedery, Show post joined the reading of your notice.

I have turned over total Sheet, of the found of the Academy of It Francisto and seen the poor figures of Mª Kellogy's new-species, many of which look like Oldacquaintances. is not this Kellogg another Buckley, and Werse a humbug?

I feel a fever of impatience to book at the Islants you have sent - with their true names, the

Dear Gray,

Thappy Chrisman How year to yourself and Lady!

You shall have my photograph in a few days,
if you want it, and I will receive your With the
greatest pleasure. It will be for you whoor
exchange - a sovereing against a dime.

a copy of your obstuary hotice, and lead it & copperation how the herberium of Be Short come to the Acad of sciences, instead of going to the Smiths. Institution. Then I offered two resolutions; The first that your coble notice be reprinted in our proceedings, if allowed by the regulations. The second that a Member be appointed to Write an obstuary hotice of De Short. The forein was not administed the second was regred to and Prof. Gran appointed. Prof. Gran has long been a Colleage of De Short in both School of Lexington & Louisville and was his intimate friend—He has accepted the test and I presented him the other copy of your notice.

I have the work I had before are at home, to be entirely disengaged When Shorts herbarium arrives. What a pleasure I auticipate in perusing this fine collection, which we have not received

- as yet.

It is high time to close my letter and forgine the poor remarks of an almost blind botamit. I will not touch my witrayale before I have your synopses and I thank you for that of genus l'entitémon Which you have been good enough to send time. If I find the first copy Treceived from you, I will return you the Last. Your squapour of Horackiac will soon be in they beaute of the printer - Shall I send you 100 02 18 copies With the 20 allowed to the author? I will certainly incorporate la That's hirbarium the plants of Hale & Harbour I have withing to riply to garen generous I cres and thus you will fulfill your duty to science, but be predent and reasonable; You have done enough already to be placed in the first ranks of highly unfel scientific men, of the De Curdole, Hooker, Bentham, the Trow good higher! It is too late for This evening mail and the weather internely cold - I go to bed - good high again and believe me timerely your,

E. Durand

I have two comes of Pinus excelsa for you I will send them to you through our friend James Messect a Madrisher

Going along in my operation of overhauling my herbarium, I heave taken the following notes:

The plant beletted by De Torrey (in Whipple's plant)

Minutes dentaties, Next. a harrow leaved variety.

has not the least affinity with the plant of Nextall,

which I have! - De Torrey's plant is my M. Prettener

described in Pl. Prateneance (lour Acopto Se June 1855)

upon insterable bits presenting very imperfect specimens,

icul

to not the rosulate radical leaves which are sparsely dentate

and attenuated at the base into a wide petiole. Had De J.

Jeen the plant of Nextall, he would not have made his

Among the plants of Hall Attarbour, Helieve wind up. With Pentitemon glancing, I found as pecimen her noticed by you and perhap as tree Pentitemon.

The I send you the tap of it. The rest, at your service, is composed of I internode about 3 inches in length each, anylenican gladrow whetherent bearing in the circle of the leaves (which are broken hearly to the strend two ferricles of flowers on Stout ped anels about & give her feel and citialized about & give hearly things limited and citialized Corolla bilability, throat bearded, the

pretended exittichium glomeratum, some of Which appear to bersen, distinct from the others.

Howard from the Colorado Rocky mt lems to be

instead of being subsenile. Then comes the megagin's ficent plant of De Parry 12. 288 withits clongated cucers, furnished with leafy brack 2-3 inches long. and lasty the beautiful little plant 11. 630 of Pendler's Collection (The Gasymorphu Serica ? of Natt Which being to airwar party the Description of E. fulrum of De. I say that there are here 3 very distinct species to far as the faces of these plants go. Nicollet's species is the echinosper were hipidissimum of thead sheets. and I believe E. glomeratum of var his pidissimum of Forzag. Look at these, I pray gou.

Have you remarked in Lindhimer specimens

10.14 69 × 470, especially in the letter, that the base

of the carry is provided with appendages which to

not exist in the harrow leaved forms of the specimens

of the Wright, Buckley &c. The plant I allude to

is the Convolvation Hermannice.

A very tomentoic specience from Builly Expouldice you have noted "probably kothing more that a form of Her naminor" has also appeadages at the base of the Calys. It canswers pretty well to the description of Convolvalers incarea, Vabl. But I think with you that they are all form of C. Hermaniae. I am glad that you kept my polemonialoe, it gives me the hope that you will revise before long the absence genera. Phop and Gilia & havaretia.

Prof. A. Gray, cumbridge.

My Dear Sir,

By request of our friend M" Porter, I tend you specimen of Coppsis Vinginica of Nuttall; not whalled by his welf, but by 5- Pirecia, Which excelly to Tume. It really a Cryping, but nothing else but the C. Schoenside of Europe, as I have excertained it from humarous specimens in Mentle's in the head. of the Academy of sciences. As I did mention to you in previous but as, I begun un general cutalogue of the Amer. plants; I finished the Termen - chaceoe, which filled up 13 pages lunga foots up. I was wrested est that point by avery teren inflummation of the eyes, whim Rept me Vov10 dags in my room, without being able to To mything. I have moun-while, ample opportunity truspect upon the task I had undertaken and the enormous longth of it, which would meritally terminate in the hounceptime of ring would for publication in the Issuemain of the tendency, or those of the Philosophical Society. I therefore energia Ing plans and, desiring to do something uneful to the sciences, [I who true done nothing as yet] : unues a so in all ! I that of publishing a certal que fel

and been described lines the publication of Tour. of r. How and as for as that work goes. Had I been able to accompain it, a student of the botting of North merica, would have and the chance, with Di Toney, Thurber & Eutou's forthcoming 1. Sication, to occupy himself, Without being 3 igo to be surround 2 witt some 250230 different publication of Difficult access. Through the liberality of DE Wilson, In obtained new world Juch, especially, as Wedgers aumane end, recovered from my fint struck of inflammation of the eyes, I went is well again in good comment -But Co! after 300 4 Days, Trelepsed again, and found ingress in the recentity of giving up all my from of usefulum. It is can wwful thing, early, to be old endinfirm, but I can't help it - I must resign inglesp to the fur wiente so awfully sextertable me.

At the promet nement, after a long letter to less Porter and the reading of my news paper, my eyes are in a dreadful state and I am obliged to therew in a letter to this dimensarion; otherwise, I would take to like the dimensarion; otherwise, I would take to like the of deading you a few remarks on the last and a disting on the remarks on the last

There permed your charming tittle word: How Hants

grows! It is an admirable servine of the Iciana of

Botany, I imperificate to its most lowered and bear imperior.

Any our could become a good Gotamist with this little

World. With respects to your lady who, Me Buckley attemy

as been good among to inquire whout me, I wan in

my dear ser, your warry blind liend and devoted

Servano E. Durand

Exemply deribling & bed english.

Hem letten Know in your new Whether I am right in the two Villa I dend you herewith.

Fear Doctor,

M' Buckley left his plants for me at the deadeny With a request that I would skind their to you, I like to be Then before and I had to rearrange them as They were Clumsely distribula en papers of different lize.

Thave found the following Wanting: Tedalcea Alacore

Liteum tan Jabeanum all the Viner, but I send then Mimora calcarea OtroThera Campsana Tasci fraga Tescena Sericocarpu, Woodhousei Actinella lunginosa

This is as far as I can go, not having received the cest of his publications. Decidedly havis med with me. His new Gramineon Were not furnished Trijust how only that James has brought me the mones & lichens of D' Hayes. I shall send them another time. among the absents in the aretic plants I send you, is a Lugula roughy named L. Melanocarpa! It is a mirtake! It is rather the Agperborce of R. Brown. The leaves are flut & wide, the flower in umbellet heads; but scarcely developed, Withvery acute Jepals of a dark brown. There is but one specience in the parcel sprepared for Hages.

I wrote gesterday to M2 Ch. Sprague to get some information on the Ergoishe hecating, for Mr Dermontin, pres. of the Linn. Toc. of Bordeaux. I bed M' Sprague to communicate my letter to gon inorder to have ed-D'troud remarks outhe tuliet of you have any to make

Very Sincordy yours E. Durand

Thursday Evening

the old spot and aprooted several plants. He found in fact two different looks, one sent to me was the face simila cof that form I had seen in your herbar. What was remembered however, is that the leaves, instead of resting on a Cylindrical Stumps (root) as is the case with the ordinary Welmingtow plant were seated on the crown (collet) of a tuber. is it so with your specimen? I motalso Isoites a divisions Cryptogam?

Another riddle! Last Sept. Prof. Leidy brought ine aspeciment I socter, found in a ditch some 4 willer of Camben N. Jersey. I Started nest day to fond the Locality, which I only found cut my 4th vagage. The Water was very limpid and not very deep, I carcely over 8 inches in the deepest part. allthe bottom Was litterally strewed (tupissé) with die Les, hot with erect leaves, as the Wilmington tother species, but with leaves laying flat on the muden a resulate form - It was a beautiful sight! With those in Shallow Water, the leaves Were party erect; but disher elled, not forming straight bunches I foulled out a certain number, just by forcing my hand through the toft mud and lifting up, the Whole Istund. Thesealso, Were tent to Duriseen With the expectation that they might prove when I pacies. The Loots Were round. The leaves thort,

Dear Gray,

Thus and the first part of Astragalus for both of Which I feel highly indebted to you. I shall expect the rest With ansciety. Of the 65 species of Astragalus described, I find I possen 44. besides varieties. It has been a considerable labor to you and I cannot but admire your facility, ability, perseverance & buthousiasm for the amiable science.

I thought the flat margined seed was a good specific cheracter for streptauther.

At page 187 - Streptanthus Vergatus, Natt-your say: "Although hot extant in any of our herbaria, I may resten Confidently refer it to Arabis retroprata". I have in my herbariam a plant of Neutrall, labelled Arabis virgata, which so fear I regarded as Neutralli Strept. Virgatus. It is heither a Streptanthus hor an arabis, Ind ging from the seed, which is oblong and in double rows in a strictly exect, silicle, about 1/2 inch long. The seed, remember those of Packy podimin lainiation. The filent is small with a long free form root, a last of villow villow villow villow and villow villow villow villow and villow villow villow villow and villow villo

The stem is composed of two divergent branches, forther from the Eost and about 5-6 inches high - Scarcely any flowers at the top and very small.

It appearance it looks somewhat like A. Cauescem, but it is strept author virgatus, Nutt. it has no affinity whatever with spalding's plant, Arabis Ectro-fracta, Graham, Cum flicture purpareis.

be published, it is the hands of the printer.

Touthink perhaps that the Academy is how in pronenion of De Thortsherbarium. We have not heard from the family everince the letter received from the sourby which he was announting to me the actual donation of his fathers botanism treasure to The Acadamy of next. Sciences - by her whole family. Upon the reading of the letter a vote of thanks to the family was part and transmitted by the secretury. I wrote to the son lequesting him in behalf of the Accidency to employ a carpenter and a proper personto pack up the Whole and deliver to Adams' express with bill of Expresses which would be Lecinbers paid by the the Express and trummitted to us. Not a word have we heard from Louisville, lines. What is to be Jones?

Our Isoetes-mad french friends are pregnaring for me a place in a mad-house. As you will see by What follows, Isoetes Engelmannics a true Proteus That changes its forms at Will and, so far, is not comfiletely winderstood:

Our Wilmington and Darby plaint, Which our Phila delphia botanists cell Engelmanni, I have never been able to consider as such since I saw injour herbarium a specimen from Illinois Which colone, answered Prof. Brownes Description: Leeves long & lender, soft and flaccid, light-yewow-green, dilated base longer than broad. I will remain that the who te loot is also Conger than broad, Whilst our Wilmington plant is the reverse). Last Nov. One year, Good M. Canby brought me 16 fresh roots which I dispartehed to Durien, They arrived sufe, Were planted and every one of them Succeeded à merveille. Last Summer, D. Wrote to me that, to his great surprise, only one of them proved to be Engelmanni. he ded not tay What the other, were; but I begge him, if thew, to call them 1. Cambyana. Dulien requested un to bequire from · Carry how this could him heippened - Whether they " all came from the same locality or other wise, and to look into the matter? Canby was too much inter - ested not to clear the mystery and the next day, I

communicated to him Durien's letter, he went to

und their base appeared to me Wider than long, us the ordinary Wellerington Isoeter, The spores were reticulated.

Jeens with and, confessing my inability
for inscroscopic investigation, I maintained that
I proves whome seem to me insufficient to Characlerize a species, that the facies and habitudes of
a plant were also to betaslewin consideration.
He. He.

Now for another purple. I Afew days ago, Ihad from Engelmannia to me that a Pilularda, a letter, announcing to me that a Pilularda, Collected by Nuttall near fort something in ark awas, and Which I had given to Dr. Engelmannia With Jome Marsilea, Azolia, salvinia, te. to send to Prof. Brown. Then the Detouched the question of Isoeter - mentioning to me that Hallhad sent him a good lot of his Isoeles melanopoda, gay and, upon examining them carefully, he was inclined to believe that it was nothing more than a state of I. Engelmannia.

Now, my dear gray, is there not come in all there treataenorphores of that protean I. Engelmanni to become also Isoctes-mad? For god's take they that name for -- Shall I say Protecting - As form I have done with it, when it is proved that this

plant is divicious az even hus three genders musculing formition and neutral, which different gangers give the different former. My photograph will soon be ready. To for the great artest, M2 Sun, has been scarce, weak and lazy and refuser his assistance god blen you and your dear wife! and forgive these long letters interlarded Wills bad english and houseme. Always yours every inch of me. E. Durand The state of the s · Permit me not to read it over the same of the sa I done to me discourage of the sin Parcel him to go tot in it as Isola on the formation in y carely expect the course of the contesting of the course A de la de la companya de la company and the second of the second of Mose in the second of the second of the There are the second section of the second s To the course of the the state of the course of the and the second port of the self of the self of the second The many of the and the second of the second of the

Heat gray;

Enclosed my photograph - a pretty hand

I had promised ingreif, hever to be filetogregitud or painted, but I could not refuse you: Lend me your in I turn and be sure that I will take good care of Atim. If I dared, I would wish The favor of My Gray's carte de visito, to be placed en regent of thes of Mer Visinorino, Which I am Expecting. I wo more accomplished ledies can Tearcity be found. I shall never forget the poetral expressions of our Venerable Farlington return ing from a visit to Cambridge: When Weilling with the happy couple, in their beautifut Eden, Timegined I was in company with Adams and Eve, before this minfortune -They looked so happying, so loving

I have read your letter to the printer and advised him to communicate a to our Portmenter. to concertain Why the law, as you quoto it, is not executed in Philadelphia as it is in Mama Chandle? I suspect that there is something Wrong

in our Post office: The clares pretend that where There is any Writing, it must be charged as Letter. M. Thompson has assured me that this had be done to him several times and This is the Ecuson Why he sout your manuscrips by esporen; but The lescal price was to cont. He offer, however, to have been be accountable for the 75 cents. As to the fuelt of not complying with your typographical indications, hethrows it a from the Publishing Committee Who in ... View of economy, have adopted certain rules. Nothing yet from Louisville, and I have Written to M' Win There for information. I have received the second part of Astragalus, With Oxytropis. Of thefirst, I have Jo species. Of the second, J. Tomorrow Iwill arrange Those of the Acedemy. I send you Nuttall's Azabis Virgata and a poor little specimen of a Crucifer from Nevada, Which thight prove to be Hesperin Menziesic. Keep them both of they may be of Service to you. Very inflictionately yours E. Durund

Dein Gray,

Shave returned from Bettle him Where I Spent two weeks, conforting a sick of friends? I reduced to londiness by the death of his wife.

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And some

I am Very happy to have photographi of yourself and lady . I let a great value upon Them. Certainly The image of M's Gray is not flattered Me Sun has hiade a mistalle as he frequently does and ho Wonder! The proparations preceding his operations are always tedious and whenthe word leady is almouniced, you have generally a constrained ex pression Which is neither the newwal, wor agreable. Sucharis Mr Grays photograph, I am Very thankful to her and I will Kregitt religiously. The more I look at it, The more I discover the defects, and Corrects Them in my mind to as to reestablish trutto. I would indvise you personally never to have your John Tograph taken full length - This Style is always defective and looks smuller than the object; The Ityle of mine is more faithful, and What else Do we want in a portrait? The features and eagression of the face."

Our printer had promised me the copies of gones Horackia before Istarted for Bethtehem. At my arrival last saturday, they were not yet ready and I expect them every moment. I have ordered 50 extracopies, besides the 20 allowed by the Acedemy. (total 70) I will retain helf a dozen for your friends in Phil. Lancuster and Delaware. According to our convention, I have paid for there and I will send them to you by eseption in a small box, with two beautiful comes of Times excella from my friend Fiot's farm there Bethtehem. If this tree has given fruits To hen much lerger one, en our mortery garden, have not, you may conclude, I think, that it is owing to the mountain air and expresure. M'Fiot's farm is perhaps 300 feet wood the water of the

The Post-office affair has been cleared. The low speaks of What passes between an author and the problemer. In our case the printer is not the publisher, but the Arademy is. Such is the interior of our Post-menter. Now it will be to the Publishing Committee to much such papers.

I have the fitewine to summounce to you that

The 300 volume, and packages are contained in wine large boxes and espenses to the office of the expects are already 40 Dollars. If I ever legat to be old, it is in this instance: How many 11 ew plants will I have to become acquainted with? I am very auxious to see those of the Wright, which surfortunately I refused to purchase, &c. &c.

Than received the Jad news of the death of our old friend M' Jacques Gay. I had given our Nor Lesly a letter of introduction to him. Lesley found him in good healthand spirits, one week after he was no more. He died aged

77 years

De Torrey hus been in our city. I loosled for him in our principal hotels; but did not find him. I regard very much not to have had a good shalle hand with him. I have some hope to scayou home summer and to find My Gruy quite recovered. I intend with De Leidy and my Bethtehunfriend to visit the N. Hacapshire Mountains, to ward the end of June. A diene, and my regard to your lady.

Truly yours E. Durand

Deur Gray

What do you make me say? That I find Wing, photograph for from pleasing. .. I believe I said it was not flattered and might have been better; as for pleasing, its spite of its defects, I was very much pleas I with it and thank Mr Gray forthe favor thave received. I said! I restored it in my image nation.

Nothing more megnificent in it, way hand short, herbarium! Time and perfect specimens, Costly praguer, Strong and elegant boxes arrangement exquisite, lasty and laxarious, Irc. Have your vers seen it? It is the admiration of all our Members and, certainly, you have been more than generous, you have been more than generous, you have been magnanimous! in using your influence to have it sent to Philadelphia, instead of Boston or Cambridge. We all admire your distinterested men and feel highly indested to you fer the preference. I hope you trever shell have occast sion to repeat it. I am here the interpreter of the general Sentiment, of our Members.

Besides the 300 yol. There are humerous packages that have never been opened by

I's short and many others of undetermined specimen Berlandiers collection; Fender M. Mexico and Venezuella planti, Wright plant of Cuba Everndberg', Mexico, Lindheimers Texas, Col. Perry', Rocky Mit- &c. Ac. As to Hall and Harbour's collection, I do not remember to have seen it and I am abmost Jure that the not here _ Nous verrous plus tard (il high) There Were puekages addressed, one to Mr Beel of Washington (gone); One to M' Eletow, (James Wrote to him to imformhim) und levo for the late De Booth. What I hall I do with them? I believe I saw one too addressed to Prof. Dewy, but it is mixed with the other puckages. It willtake tome to put the whole in order. I begged to be let alone to the wron gement of their enormous man of Volumes and packages - The 300 Vol. are ranged in a row in humerical order. I am Very systematic in everything I do and I want to other anistance Then the manual to bring me and carry off. I begun gesterday to take the inventory of the contents of each Volume. I went through 40 of them, but it was too hardayob loday I founted 23 and I am halfdeed with fatigue

I suppose De Short belouged to the old Linneau I chool as, in the arrangement of his herbarium he has, ingeniously, combined the artificial and tratural systems to a certain degree. . He divides the phoenogemous plents in two Jeris: 1 2 Dicolyledonous, 22 monocotyledonous and begin with Class 2º Lim. Oleacede Cullitrichacece, Lentibulacece, de. Class 30, l'éparacece, Saururacece, Valerianacece, Ve Class 4 5 Persia coc, Plantagina co ce, Signacen site, and so on. s san have a con-The irregular Co Eolla plants of the class Frian drice, Lucia durticia, Verbena, Lycopan, Lalvia have been brainfered to the heit. Orders Accomba Cece, Vierbenneces, Lubiatoe. 25th Here I was stopped gesterday by a Visit. This morning, I took the inventory of 22 Vol In all 85 vol. in 3 days. I have also. exemined every loos package, Hall & Harbour In lant are not there. The family has it appears Disposed of them. Iwas mistakenin my i den that I had I een wpackage for Dervey. All expenses of boxes, packing, Carrage from Haybier to Louiville de have been Julied by the accedency \$40. in all.

I do not Know what her beau paid for frager

ful work upon this fine herlarium for 10 years to come ... in incorporating all there packages anget anopaned or annumed. I believe I with have to make With all that a supplementary herbarium. all the Volumes are pretty full and will not take many more species. Have Berlan Dieri plant, been published in toton I have been fullished in toton I have free those files specimen of Fendleri Van y are those files specimen of Fendleri Van Jucken Plant, been published?

It is late and I am exceedingly tired
I will and my letter by complimenting you
upon your generosity in the gift of your
harbarium, books de. I've are the true
man of I will say no more.

If I do not go to the While my I will certainly
go to the imanguration of your new fire
firoof herbarium.

Adien, My best regards to M's gray and believe me as ever sincerely your as were of friend & Durand

Dear Gray,

I would have had a room prepared for you; but, on mentioning your visit to James, he &salumed the will not be for you, but for me, as he has promised in long ago to come and sprendrome time with us. Let it be so, Dear gray, in as much as the friend, room in my house is now occupied by my sois wife, mother. What a pleasure I witingthat from your visit in Philadelphica, I hope we shall spend a good deal of owntime together.

The Shorts herbarium, With the View to have a Key to find out what is desired to be seen in this i unnear herbarium: It is a work of longue haleine, which has occupied all mig mornings from ten to two P. IM. I have arrived at vot. 241. Wilhout an index it would be impossible to Study it with any satisfaction.

high windson, I have not had time to look at them Seriously. I see in the herbarium Tipecitiem, even undetermined, of Wright, Fendler and Berlandier's Collections and I think The packages of the Jame are simply Joine That Dr Short has had notime to place in. We will see that together when you are here; but the index is the first operation to make before being able to see clear in the lest, and I hope it will be finished to hingon Come. Wright cubaplants have not been touched I believe, but Fendlers Venezuella how been mosty Distributed in the horbarium Jum going to write to Ner W. Short for Grisebach's flora and touch the matter of Hall & Harbour's Collection. The freight from Louisville hus been 131 Doles. Expense for packing 40# 171. Pretty good prices! but no body has complained at the sight of that large botanical treasure.

Mery affectionately yours

Nery affectionately yours

E. Durand

My regards to Mr Gray, I hope The continues
better and better.

I reject -- Dont Jay perhaps; but

Come In cont-your advice - my Views might

you - a little traveling would do her good, I have no doubt.

Dear gray,

I address you today, at the request of our Phil. Botanical friends, to inform you that the Megs Charles and Aubry Smith, Dry Leidy, Bridges and Others, having heard of your intended visit to Philadelphia, are desirous to celebrate it by a botanical escension on the Reading R.R. and its brunches in a special Car, altogether at our disposal and Itopping wherever we see a fine field for herborisation; travelling esquences prind by the company or at least by its Président Mª Charles Smith who commands on the load, with good provisions and good wines at the different Itations. [Ceci entre hour)

Therefore, There gentlemen beg you to prostpone your visit until the first Days of June, Otherwise no botanical exploration could be enjected before that time.

There remarked in my rumbles of last Summer That the breects of rail-roads were the best botanical fields that could be found. These roads being opened generally through uncertivated lands and often through the very wilderness, the mulive plants are more

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Abundant than on cultivated grounds when
the localities have been destroyed by the plough.
How many town, tolking at the rate of
from 20-30 miles an how, have I percei
- ved bealtiful Known or continown flower,
bordering the Rail-road for the possession of which
I would have given ten Dollars to Itop the cars
for only orehour or som

Accept the invitation, I pray you, This execusion through the rich Coal lands of Pennylvania Will be most interesting to you, especially with our geologists and without, Ch. Smith, Well acquinted with the country and the mining operation. In those three months I will have time to arrange the Thort's herbarium and Complete the index, wothout Which, It is very Difficult to pur the hum on the volume containing the particular order or genus Which you desire to see. If you Cannot port pour visit, Com at all events and we all shall be happy to shake hunds with you cordially.

Ever your, E. Durand Let Nove Gray be of the voyage, it will be beneficial to her.

" Tout va la cruche à l'eau qu'à la fin elle se brise."

all · a line in the second of the second of

-> -

Mødear Gray, Thave imprindently been laboring at the Shorts herbarium in the unheated botanical room of the Acidemy and have Caught in consequence a beginning of pheumonic Which might have been fatal to a weather constitution, or with Cen attention Thin I have given toit.

Now I am right well again and ready to resume my operation. but, hereafter, with more prince than I have been accustomed to - I feel that I am no more The young mun and I have Seen, this Jewson, to many . old acquaintances die from the same cause and, among the rest, my old friend Franklin Bache, that I must Trow be on my quard, if I am willing to see the end of what I intend Doing With the shorts herbarium.

I must confen, my dear gray, and this very confidentially that I feel Somewhat Disappointed With the arrangement of that liveurious and most valuable collection. I begin to See that D. S. was more of an ainateur their of the true botainst. He is quite unsettled in his nomenclature; often at fault and his combination of the Linux an and natural order Systems Will not do after M. He Is luces in furtaposition orders and general that have

no relationship whatever to each other. Were it my own herbarium, I would remodel it completely; But.

So as it has been presented by the family to the Academy, it must remain, and be for ever the Shortingenine.

A herbarium!

Jam Vory ansions to see you in Philadelphia about this herbarium. nothing will be done without your advice. The 300 volume are generally Very full and there are Wright 1 Lust collection of M. Mexico - Hall's Racky int, Nothers to placed in. This cannot be some unles, you remove others. Therefore, I would propose to form a special herbarium of Tendlers Venezuela plants With Hollow's New Granda, Cancusa, & other Jouth American Collection. and unother With the Wright's Cuba plants - Alexander's Jamaica II. and other marked Flora antillana . The remaining puellages of Berlandier's Cothection, Wright. M. Mexico, Gregg & Coulter Mixicai Plant would replenish the Vacuum made by the removal of the above. I have no precise idea about The contents of the packages; They are siled up. on the talk of the 6 otherical room Waiting the wild wheather that will permit me to examine them.

as to the time of our grand botanical excussion.

There had no occusion to see Them. I sould not attend the two last sittings of the Academy - I inten - Ded going last night, but the weather was too Cold and I, not well enough to run the risk. In my opinion the last week of May is too early, in the mountain especially, Our howest would be curiy inficant. The beginning of July, on the contrary, Everything will be in bloom and our boxes too small for our gatherings. The 7th of July Will, There wo doubt, accommodate every body and those who, as myself, Irad other execursions in View, Will not regret to porthone or advance them for the pleasure of a floral Campaign With their young General Asa gray of Whom I declare myself the most devoted of his Veterain. affectionately (C. Duram)

My but regards to sun fray; I hope her health is improving and rejoice at the prospect to see her next july.)

My Dear gray,

Last week of May Will accompante every body - So all right! I hope we will have a jovial feast of our execursion.

I have not yet propped the question about Lichen and mosses. I am rather they about it, as our botanical dapartment has your a cousiderable sum of money, this year, in books, herbarium, repairs to boranical 200m, &c. In a Community like our, every one watches the interests of his particular branch, by curtailling the others as much as possible. Besides We have no crystogamists at the present mornent and you can form to i'dea of the quantity of mucici, Lichen fullyi, algoe, the There discovered in overheading Our collections to thate room to the thorti herbarium and changing the old arrangement. I think besides, that in the Several packages labelled trytogams of N. Messico & C. of Cuba We may find that we have his morrer and Licheus. I here, the morning opened some Jackages, Which I thought Were merely duplien

and I have found them to be plants unmarried and to be introduced in the herbarium. I have taken downstain Several of Lindheimer, Fender Wright and Berlandier's unmarried species and have bigun to work them up.

Berlandiers, as D. Thort has expressed, are not fine specimens; but the otherspire general are magnificent. D'Short must have had the choiced Sets.

to piews: To form a special tropical herbar.

Of Holton, Alexander, Wright and Feadler's &
tropical plants. What a fity that De Torrey in
the enumeration of the Mess Mound. I lants
has not given the humbers of Fred land lindher
mer's species? If Record book extends to them
it would be afgreature to me; Thurwise,
I shall have to take the Vol. of my herbarium
to the Academy to assist me, as, as far as I
have only time to run to the post of the
I have only time to run to the post of the
so farewell and believe my hams are right:

E. Durend

Philadelphia April 13 15

8 6'clock P. M.

My eyer are so sore from the eading off from page 40 to 65, of your manuscript first ing, that I had to take a long walk inthe country to avoid using them on any other work. It is a shawe to our Academy to have their Proceedings printed in Such as male type which I could not read the notes principally without a magnifying glass.

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No. 1

On high retier in house I found your Correct

ed Sheets, and to my astonishment error product

again which I had corrected. To morrow anoming

they will be in the hands of the printer to token

I delivered thorning your Polemoniacoce furtin

time to take their turn.

I have not yet thanked you for the addition al specinous of Parry. I do not expect, non intended, talective them gratuitously, and I am leady to fray for them, willess it is your intention to increase ting already to a great indetted went towards you.

for 56 Dotters - I can very austions to pay it

Perhaps he cannot hogociate it in his great hot lity of Alhers. I am sorry how to to have accepted your proposition to send a Checkon one of our banks - If I had no account in bank, I loud easily have obtained one from Some friend, or a check on one of It Louis banks.

you his (end mine) monograph of the Atuer.
Vites. He has used, rather too freely, the wester of my letters to him, by publishing free ages which I comidered on confidential. When he informed we that he was going to republish the Popular memoir of the Vines & Wines of lumina which I had sent to the Society of accountation, I thought is was to be willout any change every correcting the errors and adding a few things I suggest to to him.

tranguise the minds of our Winer growers With regard to an impending competition from this side of the Atlantic. My opinion is that to long as the pelate of limerican is not favora ble to the Wines of Trance, this country without really become emphatically a Wine-growing Country and, of lowers, who was to Francisco that branch of Commerce to support of this

Dea, I related Several Current anecdotes to thow that even in the best clauses the Sour (soi-discourt) Wines of France Were not feworebly appreciated — Such was the Ditional anecdote at jung - 62. Which I regret very much to Jee in a merely I cientific Sourced. He . Ve.

I commer go any farther, try pour eyes

Your sincerely E. Durand

If you want to care drawleness, importantly too common in this country tracke Wine and drink wine and drink wine - On it you get tips y but not drunk, heither heavy and drowing as you do on malted drinks.

I would title to see your ittemperanen I ocieties tetle that subject seriously in lowed a Lation _

Again good right!

Your 150 Entre Copies Will be ordered and 20 besides butowed upon the author

My Dear Gray,

I am ready to carry to Adam's express the passlage Containing all the specimens of Jacera in The 3 herbarian It is against the rules of the Academy; but I shall overrule The regulations in every occasion where the progress of I couce command it. I do not do it secretaly, but openly, taking as Witnesser one or two of the curators and proclaim for the consequences.

-ing to be answerebled. I have not Sent you a small bit of the G. heterandra, Which I have from Dr Forrey. I suppose you have much better specimens. By the by Thus species lucks of the physiognomy of the games! Request your prejet to be careful not to mix the I pacisneus and to leave in Ruch theet the specimen belonging to it. I believe you have in my package every species that has beendewribed. If you find in my lot something that you may be short of thelp. y ourself , and wondsay the same of short plants which we owe - to you . I hope you will have cause to let je can my simm

I hope you will have cause to let grass my limin Carsonis (not Cursoni) at least as a good variety of lineare. Carrow, to whom I gave your letter, has I cruples about attaching his name toit; He says it ought to be called I. freenis, if really a distinct species, as freene was the dicoverer of it; but I do not know

y 2

Green and never saw his specimens, except the miserable, Which Poster sent me. How there is gentlemen have mistaken that plant for Heloryadium hodiflorum I cannot comprehend? The word nodiflorum alone ought to have taught. Them better.

I have now a discussion With the Rev. Mi Blake about an astragalas Which he sent me under the Ipreis - fication of Alpinus. I maintain it is Oaker' A. Robbinsi, athough I do not deny that it night be a form of Alpinus. The legumes are very much alike, but it is Ocker plant, I am certain? To clear up, the difficulty, I advised him to refer to you our difference with my reasons. Jamalmost June that my friend Fiot, in our rumbles through the Orlleghangs, found the Same form but in avery imperfect state. I tow him that I thought it was A. Robbinsio - He Studied it and pretends it answers better the description of A. Cooperi. When I go to Bethlehem I Will easily escertain The fact: the love species cannot be mistallen one for the other.

Jam, everyday, occupied in overhanding the Jucklager of De Short. They consist in duplicates of in unecertained specimens of Lindheimer, Fandler, Pany, Hall

(Wight & Berlandier's Specimens and many Cuban

and South American plents. At Itelast meeting

of the Acad eng Dr. Wilson presented a Inagnife's

cent work in fowo entitled (I believe) Plantoe

Columbienses. What there is published of the work,

a thirk vol and a humber, will assist me.

in making up some of the Venezuella and new

Greaced a plants of Dr. Short. This work is the forces

11, ecimen of drawing and typography that I have

seen it is prouted in Berlin but forget the authol,

mane.

I am Weiting anxiously for you to give me Directions about the Disposition of Dishort herbar. I am Determined to arrange it according to the now generally adopted hasured system. I do not like this Linnoco-natural order adopted by D' Short and by the authors of the general herbas of the Academy. Uplaces in centary polar that have no -iclationships. When you pass through It. Yould, bring me,

When you pass through h. Forst, bring me if your lease my polemoniaeroe, ip De Forrey has Done with them. He keep things too long.

Everyour, and respect to Mr gray

Donot be surgerized at the correction, Heade 3024 Ladies talking load in the next 200m, I scarcely Knew What I was wrighting.

Wishing to take advantage of a free ticker that has been presented to me by Mr. Ch. Smith, I am just returned from an execution to the authorised region which, as get I had not wished. As mountain I cenery it is Worth I seeing but for herborisation it bears no compazison With the more eastern Counties of Penns; the region of the eastern branch of the Susqueanthe and of the great Pocono mountains.

My principal Stay Was at Pottsville, avery active little town, built in the gorge of Steep and burnen mountains rich in abundance of Coal and Izon. ore; but very poor of vegetation. I brought nothing from this trip, in spite of great fatigues experienced in Climbing those rocky hills, winder the ruge of a burning sun and the weight of seventy Winters on my shoulders. After all, to such fatiguing rambles I prefer my quiet occupations, at the botanical room of the Academy, Where I spend about four hours, every day in overheading the Short's herbarium,

our suptying into it the unopened packages of unnumed plants, &c, and removing from it all those belonging to tropical America, With the View to form a special herbarium, as advised by you.

In the same time that I feel regret for our exploded great botanical excursion, Which iegret is sady felt by our Were to be companions, I am glad to learn that you must see the great shorts her barium and will visit us in october to remain quietty and leisury a few days with us. I have many advices to ask, you in relation to this and the other herbaria: The great defect, perhaps, of the shorts herb. is, in many instances, to have a superabundance of deplicates.

Communicate to him the sad news that your could not come for our intended pleasurable botanical excursion of the end of this month.

He appeared disappointed and said he would write to you, all our botanical friends here I add y regret that this grand feast did not take place in they, as agreed at first-The Jeason was more appropriate, and those

Who had not the advantage of a personnal acquaintace With you, 20'o'ce with therest at the opportunity offered to them to Know at last their highly respected botanical leader. I hope they that not be frustrated in their hew expectation to see you next october.

Adieu! mydear frag, believe as ever sincerely yours

Respection wishes for the complete Eestan Lation of her health.

in the mean herberium, and removing from the latter all the equatorial plants that had already been placed that. This done, I Shall want for your arroval. to determine what will be the next Itey, my I dear is to recurrence it according to the present classification, that is to Juy to follow The order you have adopted in your publica tions. The present arrangement of shorts herbarium is The Linescen Classification entering in each class all the nutural order, that may belong to it. This is the currange ment that has been followed by Drickering With our general herbardum. It is bad in the respect that it places on just aposition. funities that have no relation whateverto each other -I have unother object in View: It is to condense in one the shorts herbarium land my horth Himerican herb. Each deparate, is incomplete, but united, they will constitute a more Complete resort for the botaniste. Sofar, the n. A. herbaroum is the richest in humber of Tracies, but the other Surpuses it in the splender, of his Specimens. now, my dear fray, fure you well, you and lady.

August 28 th 1864.
Seur Gray,

I have received your Kind letter and trammitted to Carry your Nantuket Aura Cargophyllata. Pour Care your Nantuket Aura Cargophyllata. Pour Care Write, to me that he has been afflicted with dissentery and unable to engage upon his contemplated exploration of Eastern Maryland. It is to be regretted as his activity and perspicacity might have accomplished some new discoverder.

I have not I had as yet the occassion to broach The question of Subscribing to the last Collections of Wright's cuban plants: Illnow, before hand, That it will not be favorably received. Our acting treasurer M'- Vaux is a great economist-He will urge the low state of our finance, and the two hundred Down Which have been spent upon the Short's herbar. It is enough, withher say for one department of the science. It. The fact is, my dear fray, hat We can well do Wilhout them, as probably the 9/10- Would prove unere Duplicates. The Collections of equatorial plants in our herbaria are immense: Besides the great addition afforded by D'Short's herbarium, Consisting of Wight coll. of 1856 to 1860 - of Itolton, Plantoe Neo-Grancina Mogotanoe, Cancanoe of indinena. Coulthony's & Jameson, quitension Ander, l'endlez Plantoe Venezuleance, R.C. Alexander Jamaica Planto, the. We have Socteau's wich herb. of 5- Domingo;

James Read & Dr Griffith's Collections in Jeveral of the West-India Island, &c. -- - - - - And no body to interest himself to the arrangement of that Splendid special flora. Jam too old to undertake it myself; my branch is confined to the North American species for which even my poor eyes are becoming perfectly unfit; I can treither read long the fine type of the productions, or other works, nor use the glass for analytical studies.

I have received a most graphic and poetical letter from my friend Fiot, on his recent exploration of the Pocono mountain. He lends me a list of the plants he has collected, consisting of above 80 ascertained species and as many to. unuscertained.

Trom the Poconio station of the Lakawascen R.R.,

they started, of a primitive wagon called Buck boar,

upon the most wreched road imaginable and arrived

at night, braised and half dead with fatigue, at a

village called Hopedale at the foot of the smountain,

at which place they had secured comfortable

room. They started next morning, having as
a guide the son of their land lord. The ascension

was through the similare forest, With all the

Usual in cumbrances; works, fallow trees, lorrents, Xe. They met on their load a magnificent Water full about one hundred feet high and other, above the The Seenery Was impressive and Sublime. After four miles of the most cordnow, murch; they arrived at a spendid bake, the object of their Search. There they found a bout, belonging to their land low and they began paddling on The laste and collecting on its banks an abundance of beautiful plants. They remerved their Vises The heset day. Fiot speaks esculingly of the Spleid or of the scenery and Jays he hever met before such field of botamical Weelth, Almost every plant was new to him. There, and every Where in that region, he saw the pretended Helorgadium Hodiflorum, of which he brings fine Specimens With ripe fruit. He says that Thursomb elliper is so common in the creeks; murches and ponds, that it is surprizing That we have had to want for the birth of on I rail Green to acquire a Knowledge of This plante:

My Work ho 1st on De Horr's herbarium. Their operation was to empty all the unopened parkages

Dear gray,

In answer to your fevor of the 30th ultimo, I Will say that De Short's family, at your request and on a letter of me, sent in the first Shumbers of Grinbach's Flora of the British West Indier, and nos 182 of Wright's Cubaplants, of the latter of Which; by the by, we have two hunders of 12.2. (one of Which I might return to you, if desired) Be good enough to complete the flore of the W. Indies, as you have now the means to doit, and The Other Whenever you can. Jouwill draw on the Academy for the cost. I have almost Jucceeded in obtaining That the Academy subscribe to the last collection of Wright Cuba filants. Please tell me The humber of Species and cost, and retain one set tentel you hear from me on the subject.

There seen l'Abbe Biennet and opened my herbarinie to him. He has made in it a better herborization than he could have made in any local exploration. I have accepted his invirtation to a trip to Anticosti Island, or any other unexplored region of Canada -- if health and

and nerve permit. . . Ah! my dear Gray, it is when such opportunities present, that I regret to be an old man and to have done so little for our seience....

I am yet engaged in Overhauling my herbar. to cleause it from occasional worms, Correct errors and put aside for your inspection, Lerrain new southern plants and other doubtful and unfit for study specimens. When I have finished, I will send the Whole to you and I have no doubt that you will find some interesting Though in my invoice.

I have received your specimen of Naias plasing var. major. Valis, and thank your for it. Could you send men a parcel of a specimen of Notine Georgiana, My I have several plants in my herbarium With that lables, home of Which auswers the description and Which I rather believe to be Veratrum intermedium of Chap.

Very cordially yours E. Durand)

My respects to Madama.

Among some specimens of Mi Brunet, hor made out, I recognized a young plant of spergularia rubre, var. alba. and your Draba incente, var glabienscula , D. arabizum, My Thank, to the Almighty, my dear gray, you have had the good luck to escape unhart from a great accident! Let me congratulatery on heartile. It ad I known any thing of that accident, before I heard of your safety, It would have made me very unearly; but, as I am somewhat disgusted with the secon papers, I was quite ignorant of what happens at Bristot, When I ames came to my house to importune of your escape. God be blened!

I have taken advantage of the mild weather to begin my work at the Arademy. I am arranging the Short's herbarium according to Classification of your Mora of the United States, instead of its french Linnow-hatural arrangement. I have how y volumes completed to the fremarialese. I believe this herbarium of extra-tropical plents, I will be able to condense in two hundred volumes, leserving the 110 vol. remaining for the tropical herbarium.

Very affectionately yours

E. Durani)

iozary, would you therefore, be so good asto Jeni he a list of such lot. Works as would be Eliest useful. Have the plantoe cubenier or Wright be published? I believe you send us one or two of the first number. Have the Verequela plants of Fender be published? I wish , during the winter, to work and cerran-- ged all the equatorial plants belonging to the shorts collections.

Turewell! my Dear Gray, Zemember me respectfully to your lady and believe me affectionatoly yours E. Durand)

Mi First begi une to offer you his Esquist. Howdo you come on with my . package of Doubtful plants. When you have do With it, please to forward it to the A cud enry. I will take my lodging for the Winter, at the St Lawrence Hotel.

Dear Gray,

I have past my Junioner month, roving from one place to the other, principally in Lancuster and Betilehem. Here I am yet, hear my friead, ME Fist, whose health is not good . but ruther improving.

Our priced Porter, Will whom I spent some haying Days in Lancaster, Come here With me, luo weeks ago, to look at Fiot's herbarium, Composed principally of Pennsylvania plants, With many mountain Spacies, owning which Porter found 12 species new to him as Pour-Sylvanian. This was a great haut for his future Catalogue!

When in Lancuster, I had occasion to see The sine collection of the great lakes plants; brought by Porter and Compagnons. Among them Were live specimens of a small Isoetis with Latter Cargo Spores, which I thought might 11700 e identical With the Catikill plant in the Ph. Academy's nerburium. There were given

to me to be sent to 19 friend Furism.

D. Writer to me in this region "That it is an admirable Discovery, far more interesting that if it were a new species. It is an uni oubled I. Lacustais, the first that he am Prof. Braun have yet seen of north American Origin; all those labelled by that name in Am. herbaria being principally I-repaire, Engel.

I sett him horvever, a few Days ago, several inthe hingura River Specimen, Collected by Mr. G. W. Clinton and labelled lacustici, Which may prove to be the same as the Great Laker plant, although they appeared to me answering the Description of I. newricala, D.P. We will see what Durien will make it.

Istarted from here for Philadelphia With

Prof. Porter and 112 Fiot, intending to take an
execution to the Jericy With our Pha Colleagues;
but the weather was unfavorable and our partie
fell to the ground. In a visit we paid Porter
and inject to prof. Carron, a discussion took

Islace in which C. Contended that his rame
was to remain to the pretined Helosciadium

Description on the more perfect specimens he had brought from the Powers mountain.

Porter thought that the hame Greeni was the most proper one, the plant having fint been discovered by the Greene.

This discussion was extremely unpreasant to the wind embarrana me extremely, fearing to hurt either of these gentlemen. What Shall I so? My idea was to name it Poconocure, but carrow seems to insist that It would be Carrowis.

Lecronis.

In fear that this plant be Describe by some body else, will you be so good ento publish it in the Socienal of the Acad. of artist seiences, so us to give me the priority: My botanical children are so few, and I have so little chance at my case, to foresce the possibility of getting any more, that I hold fast to this as the anique Pennylvanian.

We have, at the accedency, a library pains of about 800 Dolor. How that we have in the thotamical Dop! some of the most influencial members, is the line to enrich our botamical

Dear Gray,

Inclosed hine Dollers due you by the Academy - With many thanks for your trouble.

In my particular, I am much obliged to you for your prayer on new species of California and Nevada plants. It has interested my highly as containing several spec. Which I own to your attention, or which I had from other sources. Four Description of Astray alustridaely licey has satisfied me that all my specimens, were too incomplete to discover whence they differed from triphyllus. I long for your opinion oh A. Coespitosm of arry, I really believe that the small flowers A triphyllus of Nutrall might well be tridaely lices, but I have not it here to compere.

In breaking house Keeping, Than a placed myself in an any leasant predicament, that of being reparated from my harbarium.

At last, my Dear gray, There the satisfaction to see my name specifically attached to a Dwarfish plant of California. It is well worst working at bottomy for ever fifty years to arrive at this unique result.

But Why Did I stay at home, instead of Starting for a few off exploration from Whence I would have brought pleaty of hew things to itsustrate my hume, like Parry, Fewder, Wright, the. ? Were I twenty years younger, I would start to morrow, but now 72 strike for me next thursday 25 th instant, and my only resort is the Peccusy wania Mountains, when I cannot find anything hew - and even this may be refused to me, as I comider my old friend First Seriously ill.

I saw a note in the sheet of one of the plants you have returned, Which has caused me regret: You say that you have not Centaurea partibillemis.

Why Did you not take it, in as much as there were two specimens, a small one Collected by D' Woodhouse and averylasse one labelled by Nattall. C. Calcitrapa Recollect. If there is any thing in the package not examined; such, for instance, as the specimen of Vaccinium elevation and a Leucothie Which I com: Der as a new species, &c. Keep them for you. I cousider Gray's herbarism as the Type 11. Am. herb. Which aught to have all the rarities.

I need not repeat that you will have cell my Nuttall's autograph, but let me enjoy them for The few years that we left to me. I have instructed my son, when I take my start for the other Word, to place my herbarium at your Desposal.

> Adien Abelieve me Cordially yours E. Durand

Prof. Asa Gray,

Dear Gray,
I will mail, with this, some prints Which
but friend James has returned to me. I had
taken them to his house, for you, when you
were last in Philadelphia, but they were left
behind. These prints are from Durien; one
is his catalogue of the seen of his Rotanical
garden (solliciting exchanges) The other is a
notice of some new species of Isoetes.

I acknowledge With thanks, the receipt of your notice of M. Darwin's treatise on the Climbing Islants.

My Muphar latea of Schrydtkill river, Collins, proves to be Engelmann's New Species Neyshar Variegatum, which appears to be as widely spread as our advena. I. Hale's specimen from up. Louisi ana, Geyer's specimen from Riviere and Outardes, Nicolation h.W. Expedition, another in Short's herbarian labelled New-York, H.H. Eaton and Other from New Jersey in our herb. belong to the Jame species, and

I wan, almost, certain that I saw it in I'o cono -Mountain Lake, last summer, With M2 Fiot. I was struck with the form of its all floating leaves Eenecubling thors of the European Nuphar and I excluimed Nuphar luter But my friend lengther at me and said do you not see along the I horas The erect leaves of N. advena. Nothing more. Unfortunately We saw no flower, nor Capsules, and I did not Know the distinctive Character of the leaves of N. variegatum, Engel. But I intend paying a visit to that beautiful take purposely to ascertain the fact. It was covered with beauti ful Mysephosas, Nuphers among Which Halming With Brusenias and other aqueties, We brought heme half a dozendpecies of plants Which Porter did not Know as belonging to Tennsylvania. Our Thetad. Botanical Club Porter, Leidy, the Smithete, intend Visiting it hest Summer. My/1002 friend Tiot is very ell and I fear that he never beable to go There again D' Engelmann has found in our this. Collections 2 new Species of Juneus Withthebru In accetus.

I had the pleasure to see D-Torrey, just a month ago: Why did you not come with him? I think I heard him say that he had left you at his house in New-York.

for toto me in your last letter that, at the first opportunity, you would dedicate to me a new gener under the name of Durandina.

Durandin is also a family name as common as mine - Thus do not Waste your favors upon strangers. If Elidurandia, or Elioeduranda, both Engshouic enough, are found too long, let Hunchon's have friend all the honor to himself.

My regards to Mr Gray, I hope the has now recovered her health entirely.

Believe me Very Sincerely, Mydear Gray, ever your,

E. Durand

My dear Gray,

I did not distike your little shotograph and I Keep it Edigiously With that of your lady; but, ingeneral, / hotographs of the entire body we D'ininished in height and the features too small; I prefer what is called vignette . That which you I ent me last year, reading a paper, is an excellen One, the Gest I have Jeen of you. I like also the smaller one of the two which I have j'ust received; but the larger one, although a good likenen, does not yive an idea of your sweet and animated expression you look Vesced, Disratisfied. Having already two. One of which is to me perfection, it would be abusing your frienship to retain either of the two for myself; but, if you permit me, I will present There to two warm friend, of your DE Carron and Profe Porter or any other you will prefer.

I am going tomorrow see my good friend It'st Who is dangerously ill and Wisher to Jeeme.

In general appearance, Myshar Variegatum of Engelm. Tenembles Very much the european Luteum. The Distinction Characters between the leaver of Variegation and advenaginay also be the Jama as between the latter and lutering.

but the form of the capsule in Geyer's specimen appears to me very different, almost conical.

We have perhaps both variegation & tuteum
The Schugtkill specimen, which you have, might be the latter species. I will partall our botanists after it hest season.

When you have done with my plants,

Johnse address them to me directly.

St Lawrence Hotel, Chesnut St

Truly yours E. Durand

Respects to your lady.

That I send back your 2 phot, or Dispose of thee
en I propose?

Mr. Common of Delaware Writer to me that he has found Icucan marginatus, vas biflores of Chapman. and a new form of Cemicifuga Licemora With firely Divoded Ceaves, Thousand be C. americano?

My Dear Gray, I have received your Kind letter of 26 altimo, and your invoice of plants, I Will, this evening, present to the Academy your plants of Maurities M. I will return you the specimen of Jolygonum geni -culatum of D'Riddell for your safetlesjung. Will return you also What I consider Vaccinina elevation - at least it seemed to me that it auswer) Well the description of that species in D.C. 1/120 drowner. It has, no doubt, a great affinity to V. standneum, but the ascillary flowers oplong drouging potroles and the leaves, broadly oval and subcordate, seem to distinguish it, sofar as may be judged from such asmall bit. I will send it back to you for re-comideration & Regin My poor friend S'cot died very swenly on thatifthe Of last month. Thus left him a few days before, to me in a desperate state; But himself, persuaded that he would soon get better and that the fine month of May Would cure him, and We would be able, in June, to Ewing Our beautiful mountain Lake of Pike County, Where We had found to many interesting plants not get

found in Seunglowine

ing 1

His brother, his heir at low, has presented me With his herbarium. His collection of Pennsylvania plants is very good and Will permit me to replace my old specimens; But What is of great value to me is a set of 12 or 1500 specimens of lare. h. a. frauts which I had given how and Wile not be sory to return to their old sheets.

When I have received those plants, It will be an occasion for me to overhaul my Whole herbur. and detach from it all the specimens of Nuttall. Which I have promised you. I will market those of which I have no specimens from other sources, with request to you to replace them, when permitted, by duplicates in your pronession.

The death of my friend Fiot is a great lon to me. We had been acquained and on the most into muster footing for over 40 years. I may say that he was the only surviving true friend that was left to me in Philadelphia. This is the greatest mise - 24 of OD agento See of friends drop down one after the other and remain isolated. Had I not my excellent son, I would not Know what would become of me! We intend both to pay another visit

to the family who we rerging me to go and spend the fine season with them.

My dear fray, your photographs are alway, Iweer looking to me; but the two, which I have already, I relish particularly; one, as matching that of your lady, is in the friend's album; the other, which I preper to that you sent me a month ago, is in the botanical album, opposite that of De Jorrey - and I shall claim another excellent one, from Mi Tiot's album.

It is just that your numerous friends and admit en should have their share in the Distribution; I will therefore inquire Whether Carson & Porter have been satisfied in that respect, and if they have Leidy, the Smith, Canby &c. Will be very happy to be gratified with the two I have left.

I had the pleasure, a few days ago, to receive a letter, with his photograph, from my ord friend Rev? Curtis.

My regards to Mr Gray and believe me very cordially yours great emotion full as it is of affectionate sentiments towards me on the part of yourself and good lady:

Jam proud of your frienship, I assure you, and
I hope to keep it to the last.

Jegret not to be Grand pa; but I see mythil.

The So happy, so free and so resigned to their con
Dition that really I do not pity them hor me;

If they have not the lender Riss of their little ones,

they have not the uneasiness, troubles and affection,

that are constantly attending the condition of

I have not given up the idea of visiting New ling land; but Will not undertable this voyage before september, with my son. I contemptated to take a trip to Europe in the fall; but this will depend on the price of god, 130 is my aut. I some many of those enumerated in my Plantoe Pratteneauce? Yes! a new Dition of your manual is much wanted, and you will have humarous addition to waste. Remember me Kindly to your good lady oud to Mande. Remember me Kindly to your good lady

Germantown Philadelphia July 11th 1866

Your appectionate letter, dated 3-,
With two spectrate and oices, were received only
the day before yesterday, through my son who had
visited the city - I am now with my family in
Germantown, a little cooler than in Philadelphia
and with delightful well shaded avenues, bordered
with splendid country house, where I meet many
old acquaintances.

I went to the city yesterd ay and spent the whole day in altending to your desideration.

I did not find in my herbarian any of Nuttall's plants that I was looking for but in the Academy, N. am. herbariam I found two of them, Lepidium lasiocarpum (in fruit and almost without leaves) of which I send you a parent; and Draba densifolia, which you will return. As to Pachy, odium Sagettifolium, it was there also, but I could not detach it, being pasted on. It very much respected on P. integrifolium 12 ST of Hall A Harbour's plants.

Before leaving the city, I worsted very hard

in my garret room in replacing in my herbar.

The rereplants Which I had given my from

Fiot, and other fresher and rare Penny (vania

I lant tollected by him.

When I began that work, I had two operations in View: The above, and pricking up for you The Nuttall's specimens as I would find Them going on, but I soon perceived the truth of the old french proverb: " Gui Courdeux liévres n'en attrage aucun" I was however, more lucky, I went succesfully through the first operation; but collecting the Muttalli Specimens, was a Complete failure. I got scarcely 50 of them! Testerday, having the vol. of Cruciforoe in hand, I withdrew from it more than fofty Trecimens of Muttall, and a few others from California, to submit to you.

I Will return to the City tornorrow and continue the Muttall's specimens operation. Your 3 specimens have been left in that package. Do you want them to be returned immediately, or shall I Keep, them until I have a good package to send you.

I have been here very busy in arranging my package of June, returned by Engolmann. I have 40 Species. The 11. am. herb. about 30 and shorts no more, I believe, than 20. I send you a specimen af a peculiar form of Juneur Dichotomus, Collected by Prof- Leidy & Camby on the Jeashores of Delaware Itate, Whereita very abundant. It is, to far, the most northern localing Known of this species. Eng. Jay, that he hever saw this form before. As to the I. accutus of N. I. mentioned by him, it is in my herbarium and from Collins'. The mark-Seashorer of M. J. Ino, 1- probably, E. D. belonga to a specimen of Roemericanus That has been taken from the paper of acules. Without Embling off the above suprenciption. Thus, When, in your new edition, you come to genus Juneus - do not mention acutus, if it is not found by our enthousiastic botamists, The Smith, Cauby, Common, Leidy, &c. Itis in Jearching for I. aculus that Leidy's attention Was brought upon the Variety of I. Dichotomus. Caple, has found suncer Elliotte in Deleware With

Germantown Sat. night, Acog! 8th 1866

Deur Gray,

have been busy to put the last hand to Nutrall's
speciment to pack them in a box which I left
at a friend house to be sent to you on manday,
by Ad ann' esepren. There are above 600 op theme
and I have no doubt that a good humber were
part off, as I was, at the same times performing
two often operations: Placing specimen sent
to the by D' Chapman and withdrawing from
ing herbarium desiderata requested by D' Chapman.
On another occasion, I will put and efor you such
day licates as have escaped my sight in the part one.

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All the Specimen that are stuck on the sheet, were unique one in my herb. all those that are which were which were loose are represented by others, and often day weath, of Neutrall's specimens sout to you. I have been as tourished to find so few after order compositor; Nutrale stay ear that he was theeping the less orders, until your general flore would be published. Try to send on other specimens of the former kind.

I have a profit

I paid a visit to James, this morning, to inquire about you, as I had received, none of your latter since a long time. It is with a profound segret that I heard that the health of your lady was not good, I hope that the cook wheather of automn will twice invigorate her and that she will soon be restord, to her former good health. Pleasant resent her my warm regard and best wisher.

I have spent the summer at fermantown, with my son of wife and in the vicinity of my old friend Daniel B. Smith. Germantown is a very agreable place. Its avenue, are shady and cool and the villas that adorn them are very neat and prite was ques. Joine of them are beautiful chatenny. Its neighboursed is also, for a botanist, one of the best localities that can be found.

The Last Cultur I received from him was detured to court hampton, Man! He was saying that his trip to the north had not benefited his health and his disease. Was dreppy (very bad) He intended to gound sceyou. I wrote to him i'mmediately to Know whether I would sent him his desiderate to Cambridge or to Apra-Cachicola, land have not heard of him Since (about

(Three Weeks ago) Sames tells me that when he left you, you had not heard of him.

I will return to the city nest saturday, thirday in a week. I do not know whether I will return to my old questers, It dawrence Hotel or as La Pierre House, my son and wife in clim for the latter. Continue to address me at the Acadomy, as I go there every day. Has your Correspondent from Nevada Seur you some of my plants of the Henry Pratten's Collection, my varestrum Califor niceum for instance? How much I would like to have a souvenir of my old friend Darlington in bis Darlingtonic, Which I think you cultivate in bis Darlingtonic, Which I think you cultivate

Farewell! hey dear gray, do not overwork yourself and may this letter find your lady in better health.

Believe me sincerely yours E. Durane

Taris. I do not like Me Brongrand and those gentlemen Do not Jean to appreciate the fine freeent fintend making them.

My dear Gray,

When will you amounce to me that My gray has entirely recovered, not only from her last attack of dynewtery; but also from all the ailments under which she has been to long suffering? This news will be as agreeable to you to convey, as it will be to me to receive, and I esqueet it very soon.

I thank you for the trames of my doubtful plant, that you have been good enough as to give me. Unless wented by you, I shall be glad to have back silene laciniata, Nyclaginia & Portulaca which are but thinly represented in my herbarium. Can I not buy a set of Bolander or Brewer California specimens?

I seed you herewith one of the four specimens of Marribia macropoda, Engelm! that I have received from Texas.

Two have been given to Engelmann, for Prof. Braun and himself, the 4 to I Key, and regret not to have another for Dr. Forrey.

I have remained quietly at home this summer and I shall work hard, during the fall and winter, to prepare myself for a long trip to large, heart spring, provided the exchange on gold be not exorbitant.

Sum now overhauling my herbarium, with your excellent manual in hand, with the view of ascertaining which of its species are not represented therein, and apply to the proper sources. I did the same with Chapman's southern Flora, and sent him to list of desiderata, in ese change for his, which I nearly completed from my -own her barisum, and one of Elliottia.

Now I have a pretty fall Fent of Jessas plants, and a good humber of Messican Boundary, California, oregon, Rocks, note, for western states, arctic, &e, Thus, I shall be able to take with one as complete and It, amer. herbarium as there been able to pick up, I was very much bothered this morning with a plant which you must have in your herbarium. It came from Do Jose Hale of Alexandria, Louisiunk, and

came from D' Jos Hale of Alexandria, Louisium, and is labelled by him Helicultum hirsertum, Ruf. It: Diversitolium, Ell. — It is treither, but is a remarkable var. of H. atrombens Its leaves are very thick and rough bristly, round-oval, Subcordate, opposite and petioled, except those at the foot of the floral Granches, the scales are quite obtuse and slightly ciliate. It has the aspect of

of Sulphium, Which I thought it was from a beautiful specimen in De Shorts herbarium, the Stricted Ligares of which appeared to have been purple.

I received, a fewdays ago, a letter from D' Robbins, announcing to me that he was not deed!

Le brave homme vit eneore, grace à Dieu!

I am very glad of it. In enshort personal acquaintance

I had with him, at my house, 4025 years ago, on his

2 et turn from Jexas, I was very much pleased Withhim.

Thave also received a letter from Buckley? He appears to be somewhat tranquitized about the Charges that were made against him. He attributes them to Dr. Shumart who, he says, is very aupopular in Austin and the Whole of Jescas.

Now farewell, my dear Gray, and my regards and best wishes to your good lady.

Cordially yours E. Durand

When you send the anything, would you be so good as to let me have a specimen of Helicanthus himstus Rug. I have but a very poor one open anomalous form with all the leaves Serice.

the Nuttallian Graminese. But what can be done for him?

With my regards and good Wisher for madam,

I remain, my dear fray, yours cordially

E. Durand

C The history of the 5 Specimens sent to you. I 11-1 Isthis Nyclaginia capitates? Tescas.

1:22 Order Nyctaginaceoe? I never saw this plantand & it is not in a condition to be stadied. It is accompanied with the following note: If collected and cured, it has the odor of the Best to baco. in Yesses. "Prostrate Chapparall". The specime

are tips of young branches, Without flowers, fruits northorns. Ibelieve they belong to the Castella Nicholonia, var. Texana

They are extremely bitter.

has puzzed me considerably and I was to proposit to you as a new silene. It description Was ready, when I found out that it was a south Europe an Silene, 5- freedula, L. probably introduced there by the spaniar 27.

of Dianthus; and the claw of the petals have scales as the silenes. I am not sure that it comes who from California & but introduced there likewise ipso.

but introduced there likewise, if so.

10.6. It is the first time that I see this little plant growing of extensively in our streets the least frequented - in the interstices of the bricks of the provenents. I think it is in the time sagine apetale, having only 4 saprals; but is Porter and Leidy say that it is the I. procumbers if Decide! This excressence is due, I that it, to the great

My dear Di Gray,

I hope that the present will find you confortably at home, your good lair and yourself!

I duly received your amiable little note, dated 11th of July; and, a few days after, through our friend James, the package of Nuttation Composite, Withouthe Mew edition of your Manual. This is a noble present, Which I value highly as coming from such honorable source:

Receive for it my warmest thanks!

I have preceded with great interest, and have counted about 20 genera and 300 species added to those of the preceding edition. The plates of the Experience are also a valuable addition, and the whole greatly improved. This excellent worst is norgest to be found with any of our booksellers, and is expected with much impressione, by all our boranists. I have lest my copy, successively, to Men. I smith, Profiteidy and Porter, and other Lovers of the amiable science. all delighted with it.

I knew that you were to be about during 402 5 weeks. As to myself, I have remained quietty very confortably, with all my books and herbarium, in a large room on the second story. I feel quite at home est a sisters of my daughter in law, a sweet & amiable lady, who lost her husband about a year eigo.

The plants you have lent me, with many others received from Different questers. In plackage from Tessus, I found only three that we doubtful and which I will send you, with 2 or 3 others, to see If you can bet me right. Among these Tessus plants, I found 2 fine spec. I of Marsilia, which I am compident, is the M. macropida of Dr. Engelmann, mentioned in his note to Rop A. Brane new species of limes. I socter and Marsilia. I have lent him the best with I some year quite meture.

We have published, in our Proceedings, the new genus Brevortia, of Alph. Wood. Infearthat he keeps a gradge against you, for your severa critices of his last publication, I send you acopy of his description It is, I have no doubt a good genus: He sent a precimen of it to the Academy, as well as a magnificent one of the Darlingtonia, complete. Brevoortia will be a real acquisition to our floral gardens. I will give you below the history of the five plants I send you.

About three mouths ago, Porter being in my room, requested one to see my Potamogetons: He found my collection mey Collection so interesting, having in it a may injecent fruiting specimen of P. Robbinsi, that he induced me to send my package to Dr. Robbins. I had then here a friend established in Boston, and I gave my package to him and wrote to Dr. Robbins to have it called for at my friend's establishment. The Doctor Did that himself and was to send it back to me by esquens. I have not heard of it vince, and I have heard that the Dr. was deed.

Will you oblige me, my dear Gray, to Write to the family and claim for me these Potamogetons, which clave a considerable vacuum in my set of the order Naindaceae.

I have received a said letter from poor Buckley,
who herety ore had great hopes to be appointed to the
Geological survey of Jescas. His competitors have brought
against him your review of his new species of Jescas
Plants and he wile probably loose his lituation of
Geologist of the State ad interim. It is a pity for the
mian, who has two grown up daughters and no fortune
no resources but his scientific reputation which has
Demolished by his own want of judgement, the cause

Dear Gray,

What a troublesome affair that of preparing for a long voyage! I have not a moment
rest to write a letter. Visits to make, visits to
receive while you have to many things to finish.

We leave Philad elphia on friday morning
and New-York the following day early in the
morning. I shall spend the evening of friday
with De Torrey, and find there your package of

Tender's plants.

My son and Wife come with me and I hope to see you and lady in Paris.

If you have any thing to Write to me; if I can do there anything for you address your letter to 86 Boulevard Beaumarchair.

in in Belter health and well disposed for her trip to
Europe - and believe me most cordially
yours E. Durand

Deur Gray,

Here Jam, in the middle of my family and very busy in the laboratory of the Garden of plant, in placing the plant, of your package, and of Dr Torrey's package and others which I had accumulated in the last weeks before my Departure.

My herbarium and engrely have been well re-- Cerved, as we deserve. My present is really a great a equisition to the Parisian Collections, They were rather poor in Protth american specimens, But they have an timm ense collection of Messican plants which are now in the hards of Prof. Engene Fournier for determination.

M' Fournier uppears to be a first rate Cryptogamist,

He looked over my Ferns and found there a becutiful

fern, collected by Buckley, which he said was the

Asplanium trilobum? He pretended also that my usple

winn addicans Was the true A. Californicum and that to

Which I had applied the latter name, was the radicans.

I am almost sure, however, that I am right, according

to our American authorities. I would like you to

matte his acquaintance, When you visit fairs.

Mª I is the secretary of the societé botanique, the is yet a young man and is extremely as mable and gentlemanly.

I have seen Prof." Brongniand, Decairne, Julaune, a great Lichen counairseur, whose name I do not becollect, a Norwegian, an authority in the morrer, and several others. I have not seen as yet D' Corror for whom I had a package from you. This package is at the garden of plants and he has been informed of it. I had notime to call on Mrs Vilmorin. The heat is very oppressive, as strong as any I have felt in the United States, and I am almost certain that she is in the country.

I am working hurd, from 16'clockto 5,
to the installation of my herbarium. I brear so
much from our americans, residents of Paris,
of the uncomportableness of the Parisians app, artetnents during the winter, that I do all my bers
to return with my son in the month of october,
but my family are determined to prevent it and to
Keep, me all the winter, if not altogether. I must go
see every member, go to a mariage at the North,

To a baption, at the South, and to visit the most hum merous brench in old Brittany, the crawle of this large family of Durand, Which counts now more than a bruted individuals, Is generation, all my hew and nieces, as well as children of one brother and my self, the only two left of a family of 8 children of whom I am the youngest.

I hope this letter will reach you, beforey our departure for Europe and that it will find you and your excellent leady in good health. I think thew that it is very doubt ful whether we shall meet in Europe, because I shall envoid going to England, the voyages time must be too much at my ago and I am employed be quietty retorid in my house of Delancy place I hiladely him.

Goodby, ing deur Gray, and believeme cordially

I have received your little note with the spec. of Douglasia Montala. Thank you for it.

My dear Gray.

Your pavor of talund in Was received yesterden morning with a enemage from my femily, informing me of the death of the only brother that remained to me.

I was then finishing a letter to him, accepting his invitation to go again and spend with bring the west summer.

We were the only two remains of a family of 14 Children of
whom I was the youngest. Fois a cause of great distres to me
and to his large and affectionate family of 3 generations.

I evan expecting with ansaicty the new, of your returns and I am happy to learn that you are Well-Very Well, and your leady in tolerable health. This I take as signifuely ingreation better them when she started for Europe. I hope the atmosphere of her native land will restore her to full health again.

Although enjoying a good there of my former health and vigor enough to walk certify half a dozen miles, I felt no inclination, last summer, for Botanical excursions; but, in the last days of the fire Weather, I visited several times our splendid park of 2406 weres of ground along the Schnyl Kill, in far as the mouth of the Wischicon and, I law to many interpreting plants, that I felt my botanical ardor revive, and premised myself next summer, if I remained, to pay

frequent visits to this anchanting spot, with full power from the managers, to help myself botanically.

There get a little bit of herbasium, le 550 species, Whoch, be afore separating from my grand collection, I picked upamous the Daylicates of the letter. I shall be able, in the park, to fall up some Vacancies and I hope you will help me somewhat with some of the plents of your enemned, which I may be. Wenting.

Com you tell me, my dear Grey, what has become of Jour D'Robbins? When I stented for France, he requested me he to procure him specimens of Potemoyelous Which thought iden tical with some n. american species. He also desired good specimens of the cardamine hirsula, to compare with own.

These I brought with me, and I wrote to him on my return; but I have received no answer. He may be dead, and if so, I shall send you, if you choose, that package.

Please remember me Kindly and responsefully to your, good ledy and to Mrs James and partiever. Tell James that I have received the Parsh's Fournab and thank him for it, Not the least doubt that Firsh's Simu heterophyllum be the Jame as 3, Carroni; but Carron has the precedence of publication and the Doctor holds very fast to be.

I do not regret in the least to have disposed of my herbin, but I am Jorry that it has fallen under the Jupervision of

of Brougeward, for whom I have no type, atty. I like Decentine, Tilene, old Spach, Fourier, Gowy Poisson, the preparator, & others - but B. no!

Goodby, my dear Gray, I alwais fett feel happy to hear from you and believe me, very sincerely your friend and whin -

1818 Delencey Place.

My son begine to be remembered most Kindly to your

My Dear Gray,

Thanks for your botanical intelligence!!!

It is proof to methat I rank yet among your numerous friends. But how do you do, and how is your good lady.

how did the boar this winter?

Iduly received your wind note of December 30th which I ought to have answered sooner but an almost which I ought to have and sore eyes have prevented me. My Lavallee was introduced to me by Prof. Decaine and I was very much pleased with him. I hed told him, in fact, that he was not to loose the opportunity to make your acquaintance, when you should visit Paris; that no american botains could be service to him them yourself. I am gled that he has met you and pleased your I have procured him the acquaintance of Meehan with whom he now corresponds.

In a package of R. Mt plants, which I received from D. C. C. Parry there is as a beautiful Liatris which he had enarked squerrosa. I wrote to him that it was a mistake, and that it appeared to me quite a new species and a very remarkable one. Having but one species and a very remarkable one. Having but one species, I am a paid to mutilate it to security me to have but a single head of flowers of in numerable flowers

What have you made out of it?

Julie white bearded and looking old. White beard of our not always indicate old age, I have Known young men under 30 years, quite white bearded. Keep your wonderful intellect and good spirits, you shall be always young.

I do not show my beard, my Wrinkles and degrees—
si'on of mind sufficiently show that the Weight of
yo winters been heavily on my shoulders. I am
glad now that I have desposed of my herbarium,
and I hope they will appreciate it and take a good.
Case of it... Now, I amise myself with the slender
collection (single specimen) of 450% species, merely
belonging to your of Chapman's Floras, which I
shall try to carry to 5000, and I contempleted
great pleasure in my caplorations of our beautiful
parest of 2400 were on both shores of the Schuylkill,
on which I'll be favored with a carte blanche
from the Commissioners.

Tarewell, deur Gruy, my respectfulcompliment, to your Lady and Mrs James and ashare hands to James

Your devoted & Durand)
With my sons compliments

Hur those guittemen of the Garden of News really shown that they appreciated my/resent? Of the 200 plants which I brought from Anneys. in a poor State, the ones mentioned here are the most interesting.

I regret exceedingly to have been prevented by there wretched ties to pursue my explorations; but this hot and dry summer they were plenty but and I have no relish whatever for them.

Thope, my Dear Gray, this letter will find you and Mrs Gray in good health.
Receive for both my best wishes

Your friend E. Durund

Please remainder me Kindly to James and his law?

My deur Gray,

There not heard of you since an age; but I have frequently thought of you and of your dear - wife who, I expect, has now quite becovered from her long desease. I shall expect your answert the the greatest impatience. I have been so absorbed and tormented by the awful newsfrom France and the fate of my immerable hephews and hiere of whom not less than one dozen families reside in places occupied or threatened by the Prunians, that I have not been able to think of my correspondence.

A journey to Annapolis, M2, with my children, to accompany a Sister in law of my son, a young and amiable Widow whom we like dearly, retained us all the summer in that pretty little town. We had left Phil adelphia, stewing in a torrid atmosphere, and we found Annapolis so charmingly carrened by the Sea breezes that we resolved to establish there our summer quarters, in as much as we found agreable acquaintances and I esqueeted to explore a locality the name of which

I had never seen printed in a botanical book.

My first and only good trips took me the whole day and gave me great Satisfaction botanically spous - ing; but the neset day, I felt that I was covered with a legion of sea-ties and I swore I would not go any more in the woods and would restrict my visits to the Sea shore,

This first herborization, however, was rich and gave me the expectation to and several plants to the your fathers new edition of your manual which I had not with me. I had found perfectly natura lized two european plants, Citisus scopeanius and Poterium Janquisorba. The former in such quantity along the rail-row that I funcied that I was travelling in my old Bretagne. The other rearly as common and with bunchesoprous which appeared 20 years old.

To my green surprise I found a Desmodium with a white flower (atting that I had never seen before) I was almost certain it was new and, to this Day, I expected to have at least these three no velties to send you, but, on opening your manual, I find this white Desmodium, without, Decumbert

ochrolencum and in your addend a of 1868, I find my two exotic plants mentioned in nearly the same lecelity. Otherwise nothing new!

I shoul like to submit to you what I concider as a paculian form of Montelia termericina, growing in abund ance an the sandy shores of the bay. It is from 3 to 4 feet high, the trume and branches of the finest print color, very smooth of shining. It is premiculately branched from the base With very narrow leaves on long petroles and togethy b to 8 inches long and tonger than the spikes.

The Korteloz Kia Vinginica grows also in abundan

ce in the bruckish marshes, with leaves very finely

dontate and pointed. Louisere Jamper ins et

Jecome radicem are very common. So is Cen

tennea Caliptrapa, Ecliptaprocumbens, Var.

bruchy poda. (/, lant erect generally) Potamogetor

perfoliatus & Inacharis fill up the Shallow waters

of the Bay. I found also Sabbatia angularis, fl. albo

With unquiculate petals; and, with several other

Panicrom, the P. amarum which I had hever seen

in the leving state.

My Dear Gray.

Receive my Warmert themen for the receipt of your last Botanical contributions, always so good and so useful. It will be an agreable occur pation for me to rearrange the orders you have so well treated, the Colemoniaceoe especially which are pretty well represented in my unicroscopic herba reinn, and some of them doublfully named; but how, with the assistance of your present I hope to make them all right.

I was going to submit to you severed doubtfull

Species which my poor old eyes Cannot now proports
investigate, own ong them two small Gilia Which

I take for G. congesta, atthough of different forms.

The larger from California, folis pancipartitis,

5-7. The other, less than 3 inch. high, from colorado most

with simple leaves. I believe that I am not miste

Hen in considering them forms of the same species.

Iam very glad their you have not forgotten my ob friend Courad. He was a Worthy man celebrated paloeoutologuit, of the honor you have so justly paid to the memory of his good father.

Jou ought to induce Camby, who has leasure and money for long journeys, and enthosiann for the advancement of our science, to visit the localities where Michany Discovered the plant which yourself and Dr. Forrey have partly, Described under the name of Shortia. I believe he would not repure under the hope of finding some other things as yet undiscovered. Ah! if I were youger of 20 years...

Prusian bombs. I pass very sad days, thinking of the miseries of my / 1002 country. Over 1 hundred nephews and miecus, 3 generations, esyroned to the cusults and spoliations of these worse than Vendals....

Wishes and regards to your dear wife

& Durand

My deur Gray,

Before giving up, my herbarium, which, happily has not suffered from the Prussian bombs; but is not safe yet from the brutality of the communists, I with drew from it a single specimen from the species that were abundantly represented. I countracted by these means a small herb. Which contains now a little over 5000.

Except my Veretrum Californiam and conothera biloba, I have not a single specimen of the species to twiter which I have attached my name. Will you be so good to furnish me a single small specimen of such of them that have Discovered since, and of which you nonew, representatives in your herbarium. You will do me a great favor. This small herbarium is the hobby of my old age; not being able now to encrease it by my own escensions, I began purchase and try to make it respect able by the number of species. It is intended, after me, for the young Philadelphian who will show the better disposition and Zeal for our dear seience.

Below, the list of the species to which my have has been attached. Some may have been anticipated by Others; but you will be good enough as to give me.

With my sincererezands end good_ wisher for your good ledy, I remain affectionately yours E. Durand

Je souffre horriblement de l'état de ma pauvre Trance! Durand & Holg and
Argemone munita
Maloasta un marrabioidas
Horaettia lutyroidas

4 Hermanni 6anottrera Williamsonii 5amburus Valutina Linosgris Ceruminosa "leretifolia

Asclepius ena crephylla var. comose Cuscuta Inbindusa

Antérshinume Coulteriumum var. appandiculatum Mimulus escilis

Castilleia candons Obione bruetevsa Eriogonum roseum

> plumatella Hermanni

Enphorbia deelluta.

Salt Latte Valley Dodeentteen entogripoline Silone Californica

Prutter's Plants.

Silene Californica

" var. minista

Symphoricergus racemosas
van tri-lobatus
sericocergus Californicus
Heliomeris simples
Monologia Heermannii
Campanula prenanthoides
Mirmulus Prettenii
Stachy, Brettenii
Eriogonum Frettenii
Eriogonum Frettenii
Symmadenia longi spicas
schoenolinium albano.
veretum Californicum

The filments have not arrived get

Prof. Asa Gray, canbridge.
My Dear Gray,

I received, yesterday, a letter, stemped Cambridge,
The Direction of which in a wroting quite familiar and very dear to me I opened with haster
and, what was my disappointement it was not
from my distinguished fraction. Be not so parimonially
of your epistolery greeting. I have not received any
latters from you since an eige and Sam uneary
about your and your good lady sheath.

As for me, I have been most mis crable, since 6 or & mostin, my poor Son has been suffering from that hourible desease called thumatic gout and is not well yet. His prifethan been sick all the white, and his mother in law, who resided with us, has Dod of old age and consumption.

Mental ansciety, Sleeplen might and whent of evancing, so usefull to me have prostrated me completely, since six is certify. There lost my strongth, my day, and made a brothen all man, atthough only 79 years. I can seer estywalk now write. Dr. Torrey here been have, sowered day,

I have not been able to write to him and let him

Kreser that I was sick in bed and words be very glad to see him.

However, I can say that we are all doing much beton and begin to take rider and small. promanae.

My best regards to your land and to James 'fami and compliments to Mr. ch Wright. how let me Know What I owe on the Oregon plants. Hall told me that they mould be 8 cents a specimen. Draw on me for the ammons, or wait afrew Day, when I can write a Decent bank cheke.

Your very condially E. Durand

1337 prince street, Oh a

There oragon plants, other, that Sum expecting to orleave 7000 that form my new herborden are Plants of my poor Paris - very fortunately, my former herbarian has not suffered from the Venerian bombo, during the siege.

to his last certing place, Lamel Will Where his clewains were placed bende thru of his clear Info, my believe) mother. No mortations were made, and have lat the family and a flow intimate prinos followed his acuain. This his a request he had often wave, and although I have given efferies, ho ambtite many, I have carried but his mites, can feel sutisfied his having clove so to there who have know him Exerce, my dear fir to have thus Responed upon gon towdrep my elevotestuck and strong how for they dear futher one my only bream! it is its great a consolution for him to spente of him. in the head regues to you and to him from I Clavain respectfully your truly Barnes

I hela deephia Angust 18 1873 My dem Noth gruy: " They dear old father died, on Heurday morning last, at 10.15 th. as you, no doubt, himo, already, learns, Through the medium of the newspapers, We had good to the country, to puss The Summer menths, at a pleasant place, I me to miles from the city, When we troped that change of an and change of seem mues, probably, Contribute, in Iswe measure , to make buy father & situation more Confortable. Unfortunately, his disease had taken to Thing a hold, and together enth his allowned age, no furnable change Could be expected. The seemed to grow home, such day, and, lowered the last, he became so very excitates and humanagente, that we were fired

Sis status truto of chaucter. He how you, buy than it, and, always of your or one of his pread for when the hand of the freeders.

I the traces can't that he has good, that he is no more of the traces can't have be sure that he way, how to see his british four of the news, and his british four of the news, and his british four to the interior the higher of his fellowing the fluid of his fellowing the fluid one of his fellowing, in fact, he there of the way of his or sources, this morning, in the colored the fluid one of the former of the fluid one of the fluid

to have an alter ant suntenty with Ami. Ifter these excited turn, he became hand weater and this weatenof thereasing duity me were advised, by our physician to return to the city, where he comed) receive Constant attention from him. We, consequently, made long preparation, and bringht him to him, in minday August de " without his having Laffews any perceptible fatyre; but, on the Wednesday following, he has seized with a devere allaste of planalysis Which pred from to lates to his bed Which he have left alive - he died on Thursday morning of the hest week and breathes his last called and plaufully as he had lived no this hold, Jh Cun laily lungine, my Pinis Strond, what a seven Chipensature This has been to one - for Vinen we gno futher and could carry apprecion

Let as not change the meaning of words:

A parasitie plant is one that vegetate on another

flant and feeds on its substance, Tourvillnot,

I am sure, foind this to be the case.

Me Stauffer is a most excellent man; but a man of imagination and fall of curious theories. I have seen a good deal of him drawing the six weeks I have sprint in Lancaster. I am now quietty in my good city of Philadelphia, Still homelen; but comfortable, in a good hotel, with my children, address your letters at the Academy.

J'arcwell, my dear Doctor, believe me as ever sincercly yours

Key, my package of plant as long as Will; I think you will find among them some interesting I pecimen, which you have not seen before, It exp, such as may interest you particularly. When I have time I will lay aside for you, nuttallispecimen, from my herbarium.

My deur Gray, (and please hereafter to drop your Mr of both your

preceding letters) I feel more honored without it.

Juck proofs of Rafinerqués l'ishonesty as you have found among the plants I sent you, Will repeatedly be met in try herbarium, but, I epient upon it, the ever excentric man that he was, had become invane in the last ten year of his age!

Please send to the Academy a good set of Bolander's California grasses. When inquiring for new book, for our library, I wanted principally such as might be useful in the study of the equatorial plants of Deshort's Collection, such as Terder's Venezuela, Wright's cuba and other sets of South America.

We have Benthum's Flora Hongstongensis, a present from the author to the Academy, through Dr. Asa Gray, Also the complement of Walgrer's publications.

I am yet pothered With my Bethlehemsurpus

of Which I have not even a specimen with me; but 112 Aubry smith has given me one from This Vicinity, which is, undoubted by the same. In its dry and pressed condition, its very spongy Culm has not retained its natural form, Which in the green specimens was subtriangular obtuse, or ruther plano-convex, with a furrow on the plane face: In the dry yearinen, the culm was folded in two, and Thursdy 3- angular at the base of the involuce : Has not the specimen of S. Mucronatus, Liun, on which the description has been made, been a dry one? The European Tpecimens of this species, which I have found in the Academy's herbaria, look very much like our plant, Stout, with many spikes and a bent involuerum, and the culms pressed are very much in the same londition, but the description Says: Culmo triquetro, donn Teger triangulaires, à 3 faces concever, les angles saillants, Lam. and this is not the case With the green Bush of Bethlehem, The allene of whoch is minutely dotted, Whilst in S. mucronaturet is

I now believe my plant will have to runain I. debili, forma major.

There never was in Philad elphia more enthousiam for bot any than there is now, and, at every meeting of the Academy, humerous specimen, are presented to our botanical club.

During my summer peregrinations, I have paid particular altertion to the roots of the gerardia, and I have, I believe, convinced Mr Stauffer that there plants were not parasitic. The files of the roots are, it is true, armed with Small glands which fix themselves to each other, as well as to pebler, rotten wood, fibers of granes &c. but tris not to seek for murishment, but to give strength to the feeble roots of those, generally, heavy plants. nexture has given Them there means of resistance to the action of the Wind as the has given to Vinestendrily to support themselves. Investigate the care and you will do away in your hearted ition the word, es Claudestine rootoparaites "of page 292.